Appendix C-1
Revised Air Quality Impact Analysis – REVISED

West Campus Upper Plateau
REVISED AIR QUALITY IMPACT ANALYSIS
MARCH JOINT POWER AUTHORITY (MARCH JPA)

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October 31, 2023

14064-17 AQ Report

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LIST OF ABBREVIATED TERMS

%	Percent
°F	Degrees Fahrenheit
(1)	Reference
µg/m³	Microgram per Cubic Meter
1992 CO Plan	*1992 Federal Attainment Plan for Carbon Monoxide*
1993 CEQA Handbook	SCAQMD's *CEQA Air Quality Handbook (1993)*
2003 AQMP	SCAQMD's *2003 Air Quality Management Plan*
2016 AQMP	SCAQMD's *Final 2016 Air Quality Management Plan*
2022 AQMP	SCAQMD's *Final 2022 Air Quality Management Plan*
2020-2045 RTP/SCS	*2016-2040 Regional Transportation Plan/Sustainable Communities Strategy*
AB 2595	California Clean Air Act
AQIA	Air Quality Impact Analysis
AQMP	Air Quality Management Plan
BAAQMD	Bay Area Air Quality Management District
BC	Black Carbon
C_2Cl_4	Perchloroethylene
C_4H_6	1,3-butadiene
C_6H_6	Benzene
C_2H_3Cl	Vinyl Chloride
C_2H_4O	Acetaldehyde
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards Code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CEQA Guidelines	State *CEQA Guidelines*
CH_2O	Formaldehyde
CO	Carbon Monoxide
COH	Coefficient of Haze

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COHb	Carboxyhemoglobin
Cr(VI)	Chromium
CTP	Clean Truck Program
Cr(VI)	Chromium
CRRC	Cool Roof Rating Council
CTP	Clean Truck Program
CY	Cubic Yards
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EC	Elemental Carbon
EIR	Environmental Impact Reports
EMFAC	EMissions FACtor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
EV	Electric Vehicles
g/L	Grams Per Liter
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
H_2S	Hydrogen Sulfide
HDT	Heavy Duty Trucks
HI	Hazard Index
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
ITE	Institute of Transportation Engineers
lbs	Pounds
lbs/day	Pounds Per Day
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT	Light-Heavy-Duty Trucks
LST	Localized Significance Threshold
LST METHODOLOGY	Final Localized Significance Threshold Methodology
March JPA	March Joint Powers Authority
MATES	Multiple Air Toxics Exposure Study
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MICR	Maximum Individual Cancer Risk
MM	Mitigation Measures
MW	Megawatt

MWELO	California Department of Water Resources' Model Water Efficient Ordinance
N_2	Nitrogen
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
O_2	Oxygen
O_3	Ozone
O_2 Deficiency	Chronic Hypoxemia
OBD-II	On-Board Diagnostic
OPR	Office of Planning and Research
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
ppm	Parts Per Million
Project	West Campus Upper Plateau
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
RTP	Regional Transportation Plan
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCAQMD Rule 403	Fugitive Dust
SCAQMD Rule 1113	Architectural Coating
SCS	Sustainable Communities Strategy
sf	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SO_4	Sulfates
SO_X	Sulfur Oxides
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TAZ	Traffic Analysis Zone

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TDM	Transportation Demand Management
TITLE I	Non-Attainment Provisions
TITLE II	Mobile Sources Provisions
TRU	Transport Refrigeration Unit
UFP	Ultra Fine Particles
UTRs	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
vph	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1   SUMMARY OF REVISIONS

This report revises and replaces the West Campus Upper Plateau Air Quality Impact Analysis dated December 15, 2022. The West Campus Upper Plateau Project (Project) has converted several Project Design Features to Mitigation Measures and expanded the Mitigation Measures proposed to address air quality impacts. Project emissions were modeled for both without and with mitigation using CalEEMod Version 2022.1.1.20, which incorporates numerous updates from the CalEEMod Version 2022.1.0.11 used in the original report. This report also includes analysis of emergency generators and clarification of construction activities. This report is not presented with strikeout/double-underline given the extent of revisions, particularly in the tables.

ES.2 SUMMARY OF FINDINGS

The results of this *Revised West Campus Upper Plateau Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines* (*CEQA Guidelines*) as implemented by the March JPA (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings		
		Unmitigated	**Mitigation Measure**	**Mitigated**[1]
Regional Construction Emissions	5.3	*Potentially Significant*	*MM AQ-1 through MM AQ-4*	*Less than significant*
Localized Construction Emissions	5.5	*Less Than Significant*	*n/a*	*n/a*
Regional Operational Emissions	5.4	*Potentially Significant*	*MM AQ-5 through MM AQ-27*	*Significant and Unavoidable*
Localized Operational Emissions	5.6	*Less Than Significant*	*n/a*	*n/a*
CO "Hot Spot" Analysis	5.7	*Less Than Significant*	*n/a*	*n/a*
Air Quality Management Plan	5.8	*Potentially Significant*	*MM AQ-1 through MM AQ-27*	*Significant and Unavoidable*
Regional Transportation Plan/ Sustainable Communities Strategy	5.9	*Less Than Significant*	*n/a*	*n/a*

Analysis	Report Section	Significance Findings		
		Unmitigated	**Mitigation Measure**	**Mitigated[1]**
Sensitive Receptors	5.10	*Less Than Significant*	*n/a*	*n/a*
Odors	5.11	*Less Than Significant*	*n/a*	*n/a*
Cumulative Impacts	5.12	*Potentially Significant*	*MM AQ-1 through MM AQ-27*	*Significant and Unavoidable*

ES.3   STANDARD REGULATORY REQUIREMENTS

There are numerous requirements that development projects must comply with by law, and that were put in place by federal, State, and local regulatory agencies for the improvement of air quality. Required by South Coast Air Quality Management District (SCAQMD) Rules, the two most pertinent regulatory requirements that apply during construction activity for the proposed Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). As such, emission reductions from Rule 403 and Rule 1113 are reflected in the analysis.

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

SCAQMD RULE 1113

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the SCAQMD must comply with the current VOC standards set in this rule.

ES.4   PROJECT DESIGN FEATURES

The Project will implement the following Project Design Feature (PDF), which would result in a reduction of criteria pollutant emissions. Emission reductions from this PDF are reflected in both the without and with mitigation scenarios.

PDF AQ-1

Specific Plan Area development shall not utilize natural gas. In the event a future structure requires access to any available natural gas infrastructure, additional environmental review shall be required.

ES.5   PROJECT MITIGATION MEASURES

ES.5.1   CONSTRUCTION-SOURCE MMs

The Project construction-source emissions have the potential to exceed SCAQMD regional thresholds for VOC and NO$_X$ emissions prior to mitigation. Mitigation Measures (MMs) AQ-1 through AQ-4 are designed to reduce Project construction-source VOC and NO$_X$ emissions. After application of MMs AQ-1 through AQ-4, Project construction-source emissions will not exceed SCAQMD regional thresholds for VOC or NO$_X$ emissions. Thus, the Project would result in a less than significant impact associated with construction activities.

MM AQ-1

Prior to issuance of each grading permit and building permit, the applicant shall provide evidence that all offroad equipment used during construction shall meet CARB Tier 4 Final emission standards or better.

MM AQ-2

To ensure construction activities occur within the assumptions utilized in the Revised Air Quality Impact Analysis (AQIA) (Appendix C-1) and disclosed in the EIR, the following shall be implemented:

- During each Phase of Project construction, the operating hours of construction equipment on site shall not exceed 8 hours and the additional assumptions set forth in Table 5-2 of the AQIA. In the event alternate equipment is required, the applicant shall provide documentation demonstrating equivalent or reduced emissions based on horsepower and hours of operation. The construction contractor shall submit a construction equipment hours log to the March JPA every 2 weeks to ensure compliance.
- During Phase 1, areas of active ground disturbance shall not exceed a maximum of 20 acres per day for Mass Grading and 20 acres per day for Blasting & Rock Handling. During Phase 2, the area of active ground disturbance shall not exceed a maximum of 20 acres per day for Remedial Grading. The construction contractor shall submit a grading log to the March JPA every two weeks documenting acreage graded or equivalent cubic yardage to ensure compliance. "Active disturbance" does not include moving of equipment from staging area(s) to grading areas, or haul routes between grading areas if the active disturbance areas are not contiguous.

MM AQ-3

Prior to issuance of each grading permit and building permit, the applicant shall provide evidence that the subject plans contain the following requirements and restrictions:

- No grading shall occur on days with an Air Quality Index forecast greater than 150 for particulates or ozone as forecasted for the project area (Source Receptor Area 23).
- Contractor shall require all heavy-duty trucks hauling onto the project site to be model year 2014 or later. This measure shall not apply to trucks that are not owned or operated by the contractor since it would be infeasible to prohibit access to the site by any truck that is otherwise legal to operate on California roads and highways.

- No construction equipment idling longer than three (3) minutes shall be permitted.

- All construction equipment shall be tuned and maintained in accordance with the manufacturer's specifications, with maintenance records onsite and available to regulatory authorities upon request.

- No diesel-powered portable generators shall be used, unless necessary due to emergency situations or constrained supply.

- Contractor required to provide transit and ridesharing information to onsite construction workers.

- Contractor required to establish one or more locations for food or catering truck service to construction workers and to cooperate with food service providers to provide consistent food service.

- Use of electric-powered hand tools, forklifts and pressure washers, to the extent feasible.

- Designation of an area in the construction site where electric-powered construction vehicles and equipment can charge.

MM AQ-4

Prior to issuance of building permits, the developer's construction plans shall ensure the Project will utilize "Super-Compliant" low VOC paints which have been reformulated to exceed the regulatory VOC limits put forth by SCAQMD's Rule 1113. Super-Compliant low VOC paints shall be no more than 10 grams per liter (g/L) of VOC. Alternatively, the Applicant may utilize tilt-up concrete buildings that do not require the use of architectural coatings.

ES.5.2 OPERATIONAL-SOURCE MMs

For regional emissions, the Project has the potential to exceed the numerical thresholds of significance established by the SCAQMD. It is important to note that the majority of the Project's emissions are derived from vehicle usage (passenger cars and trucks). Since neither the Project Applicant nor the March JPA have regulatory authority to control tailpipe emissions, no feasible MMs beyond the measures identified herein exist that would reduce emissions to levels that are less-than-significant, thus these emissions are considered significant and unavoidable.

The following measures (MMs AQ-5 through AQ-27) are designed to reduce Project operational-source VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions. However, even with application of MMs AQ-5 through AQ-27, Project operational-source emissions impacts would be significant and unavoidable.

MM AQ-5

All Specific Plan Area site plans shall include documentation confirming the site plan's environmental impacts do not exceed the impacts identified and disclosed in this EIR. Absent such documentation, additional environmental review shall be required.

MM AQ-6

All buildings constructed shall achieve the 2023 LEED Silver certification standards or equivalent, at a minimum. Prior to issuance of certificate of occupancy, applicant shall provide March JPA with evidence of compliance with the LEED standards.

MM AQ-7

Prior to the issuing of each building permit, the Project applicant and its contractors shall provide plans and specifications to the March Joint Powers Authority that demonstrate that each Project building is designed for passive heating and cooling and is designed to include natural light. Features designed to achieve this shall include the proper placement of windows, overhangs, and skylights.

MM AQ-8

Prior to the issuance of a building permit, the Project applicant shall provide evidence to the March Joint Powers Authority that all TRU loading docks provide electrical hookups and all loading docks are designed to be compatible with SmartWay trucks.

MM AQ-9

Prior to issuance of a building permit for any industrial facility with a building or buildings larger than 400,000 total square feet, the approved construction plans for the facility shall include a truck operator lounge equipped with clean and accessible amenities such as restrooms, vending machines, television, and air conditioning.

MM AQ-10

Prior to issuance of a building permit, the approved construction plans shall include cool surface treatments to all drive aisles and parking areas or such areas shall be constructed with a solar-reflective cool pavement such as concrete.

MM AQ-11

Prior to issuance of a building permit, the Project applicant shall provide the March Joint Powers Authority with project specifications, drawings, and calculations that demonstrate that main electrical supply lines and panels have been sized to support 'clean fleet' charging facilities, including heavy-duty and delivery trucks when these trucks become available. The calculations shall be based on reasonable predictions from currently available truck manufacturer's data. Electrical system upgrades that exceed reasonable costs shall not be required.

MM AQ-12

Prior to issuance of a building permit, the Project applicant shall provide the March Joint Powers Authority with an on-site signage program that clearly identifies the required on-site circulation system. This shall be accomplished through posted signs and painting on driveways and internal roadways.

MM AQ-13

Prior to the issuing of each building permit, the Project applicant and its contractors shall provide plans and specifications to the March Joint Powers Authority that demonstrate that electrical service is provided to each of the areas in the vicinity of the building that are to be landscaped in order that electrical equipment may be used for landscape maintenance. Said electrical outlets shall be located no more than every 200 feet apart. This measure may also be satisfied by locating charging stations around the building to accommodate battery-operated equipment.

MM AQ-14

Once constructed, the Project applicant or successor in interest shall ensure that all building occupants shall utilize electric or battery-operated equipment for landscape maintenance through requirements in the lease agreements or purchase and sale agreement.

MM AQ-15

Prior to issuance of an occupancy permit, the March Joint Powers Authority shall confirm that signs clearly identifying the approved truck routes have been installed along the truck routes to and from the project site and within the project site.

MM AQ-16

Prior to issuance of an occupancy permit, the Project applicant shall install a sign on the property with telephone, email, and regular mail contact information for a designated representative of the tenant who would receive complaints about excessive noise, dust, fumes, or odors. The sign shall also identify contact information for the March Joint Powers Authority or Riverside County, as determined by the permitting authority, and the South Coast Air Quality Management District for perceived Code violations. The tenant's representative shall keep records of any complaints received and actions taken to communicate with the complainant and resolve the complaint. The tenant's representative shall endeavor to resolve complaints within 24 hours.

MM AQ-17

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable CARB anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager, South Coast Air Quality Management District and the California Air Resources Board to report violations. Prior to the issuance of an occupancy permit, the March Joint Powers Authority shall conduct a site inspection to ensure that the signs are in place. One six square foot sign providing this information shall be located on the building between every two dock-high doors and the sign shall be posted in highly visible locations at the entrance gates, semi parking areas, and trailer parking locations.

MM AQ-18

Once constructed, through requirements in the lease agreements or purchase and sale agreement, the Project applicant or successor in interest shall ensure that all building occupants shall utilize only electric service yard trucks (hostlers), pallet jacks and forklifts, and other on-site equipment, with necessary electrical charging stations provided. Yard hostlers may be diesel fueled in lieu of electrically powered, provided that the occupant submits a letter identifying that electric hostlers are technically infeasible and provided such yard hostlers are compliant with California Air Resources Board (CARB) Tier 4 Final compliant for off-road vehicles. As an alternative, hydrogen fuel-cell or compressed natural gas (CNG) powered equipment shall also be acceptable.

MM AQ-19

Prior to tenant occupancy, the Project applicant or successor in interest shall provide documentation to the March Joint Powers Authority demonstrating that occupants/tenants of the Project site have been provided documentation on funding opportunities, such as the Carl Moyer Program, that provide incentives for using cleaner-than-required engines and equipment.

MM AQ-20

Trucks: Upon occupancy, through requirements in the lease agreements or purchase and sale agreement, the facility operator shall require all heavy-duty trucks (Class 7 and 8) domiciled at the project site are model year 2014 or later from start of operations, and shall expedite a transition to zero-emission vehicles, with the fleet fully zero-emission by December 31, 2030 or when commercially available for the intended application, whichever date is later.

"Commercially available" means if the vehicle is capable of serving the intended application (including sufficient offsite charging infrastructure), and is included in California's Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project, https://californiahvip.org/vehiclecatelog/. The March JPA shall be responsible for the final determination of commercial availability and may (but is not required to) consult with the California Air Resources Board before making such final determination. In order for the March JPA to make a determination that such vehicles are commercially unavailable, the operator must submit either (1) documentation from a minimum of three (3) EV dealers identified on the californiahvip.org website demonstrating the inability to obtain the required EVs or equipment needed within 6 months; and/or (2) documentation that sufficient offsite charging infrastructure is not available between the site and destinations, taking into account a minimum of 15% route mileage deviation for access.

"Domiciled at the project site" shall mean the vehicle is either (i) parked or kept overnight at the project site more than 70% of the calendar year or (ii) dedicated to the project site (defined as more than 70% of the truck routes (during the calendar year) that start at the project site even if parked or kept elsewhere).

Zero-emission heavy-duty trucks which require service can be temporarily replaced with model year 2014 or later trucks. Replacement trucks shall be used for only the minimum time required for servicing fleet trucks.

Occupants shall be encouraged to consider the use of alternative fueled trucks as well as new or retrofitted diesel trucks. Occupants shall also be encouraged to become SmartWay Partners, if eligible. This measure shall not apply to trucks that are not owned or operated by the facility operator or facility tenants since it would be infeasible to prohibit access to the site by any truck that is otherwise legal to operate on California roads and highways.

Vehicles/Delivery Vans: Upon occupancy, through requirements in the lease agreements or purchase and sale agreement, the facility operator shall require tenants utilize a "clean fleet" of vehicles/delivery vans/trucks (Class 2 through 6) as part of business operations as follows: For any vehicle (Class 2 through 6) domiciled at the project site, the following "clean fleet" requirements apply: (i) 33% of the fleet will be zero emission vehicles at start of operations, (ii) 65% of the fleet will be zero emission vehicles by December 31, 2026, (iii) 80% of the fleet will be zero emission vehicles by December 31, 2028, and (iv) 100% of the fleet will be zero emission vehicles by December 31, 2030.

"Domiciled at the project site" shall mean the vehicle is either (i) parked or kept overnight at the project site more than 70% of the calendar year or (ii) dedicated to the project site (defined as more than 70% of the truck routes (during the calendar year) that start at the project site even if parked or kept elsewhere).

Zero-emission vehicles which require service can be temporarily replaced with alternate vehicles. Replacement vehicles shall be used for only the minimum time required for servicing fleet vehicles.

This measure shall not apply to vehicles that are not owned or operated by the facility operator or facility tenants since it would be infeasible to prohibit access to the site by any vehicle that is otherwise legal to operate on California roads and highways.

MM AQ-21

Through requirements in the lease agreements or purchase and sale agreement, tenants who employ 250 or more employees on a full- or part-time basis shall comply with South Coast Air Quality Management District (SCAQMD) Rule 2202, On-Road Motor Vehicle Mitigation Options. The purpose of this rule is to provide employees with a menu of options to reduce employee commute vehicle emissions. Tenants with less than 250 employees or tenants with 250 or more employees who are exempt from SCAQMD Rule 2202 (as stated in the Rule) shall either (a) join with a tenant who is implementing a program in accordance with Rule 2202 or (b) implement an emission reduction program similar to Rule 2202 with annual reporting of actions and results to the March JPA. The tenant-implemented program would include, but not be limited to the following:

- Appoint a Transportation Demand Management (TDM) coordinator who would promote the TDM program, activities and features to all employees.

- Create and maintain a "commuter club" to manage subsidies or incentives for employees who carpool, vanpool, bicycle, walk, or take transit to work.

- Inform employees of public transit and commuting services available to them (e.g., social media, signage).

- Provide on-site transit pass sales and discounted transit passes.

- Guarantee a ride home.

- Offer shuttle service to and from public transit and commercial areas/food establishments, if warranted. Alternatively, establish locations for food or catering truck service and cooperate with food service providers to provide consistent food service to employees.

- Designating areas for employee pickup and drop-off.

- Coordinate with the Riverside Transit Agency and employers in the surrounding area to maximize the benefits of the TDM program.

MM AQ-22

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy and annually thereafter, the facility operator shall provide information to all tenants, with instructions that the information shall be provided to employees and truck drivers as appropriate, regarding:

- Building energy efficiency, solid waste reduction, recycling, and water conservation.

- Vehicle GHG emissions, electric vehicle charging availability, and alternate transportation opportunities for commuting.

- Participation in the Voluntary Interindustry Commerce Solutions (VICS) "Empty Miles" program to improve goods trucking efficiencies.

- Health effects of diesel particulates, state regulations limiting truck idling time, and the benefits of minimized idling.

- The importance of minimizing traffic, noise, and air pollutant impacts to any residences in the Project vicinity.

- Efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.

MM AQ-23

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy and once a month thereafter, the facility operator shall sweep the property, including parking lots and truck courts, to remove road dust, tire wear, brake dust, and other contaminants.

MM AQ-24

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy, tenants shall not use diesel back-up generators, unless absolutely necessary. Tenant shall provide documentation demonstrating, to March JPA's satisfaction, that no other back-up energy source(s) are available and sufficient for the building's needs. If absolutely necessary, at the time of initial operation, generators shall have Best Available Control Technology (BACT) that meets CARB's Tier 4 emission standards or meets the most stringent in-use standard, whichever

has the least emissions. In the event rental back-up generators are required during an emergency, the units shall be located at the project site for only the minimum time required. Tenants shall make every effort to utilize rental emergency backup generators that meet CARB's Tier 4 emission standards or have the least emissions.

MM AQ-25

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy, the facility operator shall monitor and ensure compliance with all current air quality regulations for on-road trucks including CARB's Heavy-Duty (Tractor-trailer) Greenhouse Gas Regulation, Periodic Smoke Inspection Program, and the Statewide Truck and Bus Regulation, as applicable, by maintaining records on-site demonstrating compliance and making records available for inspection by the local jurisdiction, air district, and state upon request.

MM AQ-26

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy, the facility operator shall ensure that any outdoor areas allowing smoking are at least 25 feet from the nearest property line.

MM AQ-27

Through requirements in the lease agreements or purchase and sale agreement, tenants shall comply with all applicable requirements of the MMRP, a copy of which shall be attached to each agreement.

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1   INTRODUCTION

This report presents the results of the Revised AQIA prepared by Urban Crossroads, Inc., for the proposed Meridian West Campus Upper Plateau Project (Project). The purpose of this Revised AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1   SITE LOCATION

The Project site is located on either side of Barton Street and Cactus Avenue in the jurisdiction of the March JPA and unincorporated Riverside County, as shown on Exhibit 1-A. Interstate 215 (I-215) is located approximately 2.5 miles east of the Project site via Cactus Avenue, Alessandro Boulevard, and Van Buren Boulevard.

1.2   PROJECT DESCRIPTION

The proposed Project (as shown on Exhibit 1-B) has been analyzed consisting of the following uses:

- Building B – 1,250,000 square feet (SF) of high-cube fulfillment center warehouse use
- Building C – 587,000 SF of high-cube fulfillment center warehouse use
- Industrial Area – 725,561 SF of high-cube fulfillment center warehouse use
- Industrial Area – 500,000 SF of high-cube cold storage warehouse use
- Business Park Area – 1,280,403 SF of business park use
- Mixed Use Area – 160,921 SF of retail use (25%)
- Mixed Use Area – 482,765 SF of business park use (75%)
- 42.20 Acre Active Park (with sports fields)
- 18.08 Acres of Public Park
- 17.72 Acres of Open Space use
- 2.84 Acres of Public Facilities for future sewer lift station and electrical substation
- The proposed Project also includes approximately 445-acre Conservation Area

According to the *West Campus Upper Plateau Traffic Analysis*, the proposed Project is anticipated to generate a total of 35,314 two-way vehicle trips per day including 33,260 two-way passenger vehicle trips and 2,054 two-way truck trips per day (in actual vehicles) when fully operational (4).

The existing March JPA General Plan land use designation for the site is Business Park and Park/Recreation/Open Space. A preliminary land use plan for the proposed Project is shown on Exhibit 1-B. For the purposes of this analysis, it is assumed that the Project would be developed in two phases with an anticipated Opening Year of 2028.

EXHIBIT 1-A: LOCATION MAP

EXHIBIT 1-B: SITE PLAN
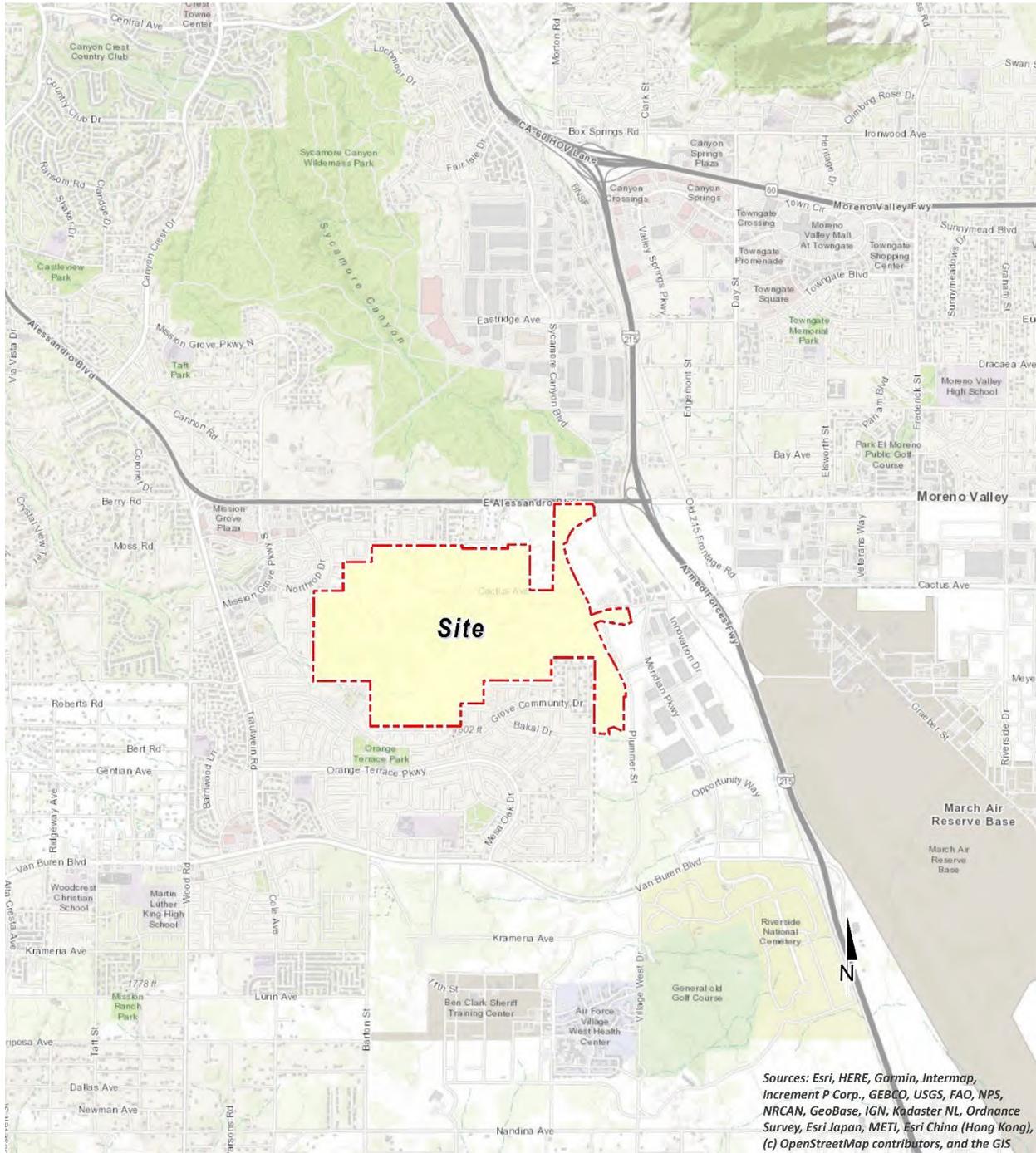
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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (5). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and the San Diego Air Basin to the south.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent (%) along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

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Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year, there are approximately 10 hours of possible sunshine, and on the longest day of the year, there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as nitrogen oxides (NO_X) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3   WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (6):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O_3), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O_2) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O_2 transport and competing with O_2 to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O_2 supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O_2 deficiency) as seen at high altitudes.
SO_2	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant	Coal or oil burning power plants and industries,	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some

Criteria Pollutant	Description	Sources	Health Effects
	mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms SO_4. Collectively, these pollutants are referred to as sulfur oxides (SO_X).	refineries, diesel engines	asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with O_2. Their lifespan in the atmosphere ranges from	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is

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Criteria Pollutant	Description	Sources	Health Effects
	one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NOₓ is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	equipment and residential heating.	associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O_3 exposure increases when animals are exposed to a combination of O_3 and NO_2.
O_3	O_3 is a highly reactive and unstable gas that is formed when VOCs and NOₓ, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O_3 concentrations are generally highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	Formed when reactive organic gases (ROG) and NOₓ react in the presence of sunlight. ROG sources include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for O_3 effects. Short-term exposure (lasting for a few hours) to O_3 at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased

Criteria Pollutant	Description	Sources	Health Effects
		storage and pesticides.	susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated O_3 levels are associated with increased school absences. In recent years, a correlation between elevated ambient O_3 levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high O_3 levels. O_3 exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O_3 may be more toxic than exposure to O_3 alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter	PM_{10}: A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be	Sources of PM_{10} include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In

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Criteria Pollutant	Description	Sources	Health Effects
	deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$: A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO_4 formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
VOC	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form O_3 to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the	Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic	Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.

Criteria Pollutant	Description	Sources	Health Effects
	solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O_3 and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO_X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or Pb acid battery manufacturing. As such, the Project is not anticipated to	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be

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Criteria Pollutant	Description	Sources	Health Effects
	generate a quantifiable amount of Pb emissions.		stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (7).	Odors can come from many sources including animals, human activities, industry, nature, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

As explained in the Brief of Amicus Curiae by SCAQMD (Brief, April 6, 2015) in *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502 (*Friant Ranch*), SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the state, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes (8). The Brief discusses that it may be infeasible to quantify health risks caused by individual projects, due to various factors. It is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). The Brief also cites the author of the CARB methodology, which reported that a $PM_{2.5}$ methodology is not suited for small projects and may yield unreliable results. Similarly, SCAQMD staff does not currently know of a way to accurately quantify O_3-related health impacts caused by NO_X or ROG (VOC) emissions from relatively small projects, due to

photochemistry and regional model limitations. The Brief concludes, with respect to the *Friant Ranch* EIR, that although it may have been technically possible to plug the data into a methodology, the results would not have been reliable or meaningful.

As noted in the Brief, it would be extremely difficult, if not impossible to quantify health impacts of criteria pollutants for various reasons, including modeling limitations, as well as where in the atmosphere air pollutants interact and form for a development as small as the proposed Project. Furthermore, as noted in the Brief of Amicus Curiae by the San Joaquin Valley Air Pollution Control District (April 13, 2015), San Joaquin Valley Air Pollution Control District has acknowledged that currently available modeling tools are not equipped to provide a meaningful analysis of the correlation between an individual development project's air emissions and specific human health impacts (9). The San Joaquin Valley Air Pollution Control District notes, "…the Air District is simply not equipped to analyze and to what extent the criteria pollutant emissions of an individual CEQA project directly impact human health in a particular area…even for projects with relatively high levels of emissions of criteria pollutant precursor emissions."

The briefs make it clear that two expert agencies do not believe that there must be a quantification of a project's health risks in all CEQA documents prepared for individual projects. To date, the SCAQMD has not released any additional guidance on *Friant Ranch* analysis. Any attempt to quantify the Project's health risks would be considered unreliable and misleading.

2.5   EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (10).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this Revised AQIA, the most recent state and federal standards were updated by CARB on May 4, 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted by CARB. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (11).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O₃)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO₂)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO₂)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page …

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6   REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3, particulate matter (PM_{10} and $PM_{2.5}$), NO_2, and SO_2 which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (12). On January 5, 2021, CARB posted the 2020 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (13). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment[1]	Unclassifiable/Attainment
SO_2	Attainment	Unclassifiable/Attainment
Pb[2]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

2.7   LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents with information on the air quality conditions. The Project Site is located within the SRA 23 (14). Within SRA 23, the SCAQMD Metropolitan Riverside County 1 monitoring station, located approximately 8.4 miles northwest of the Project site, is the nearest long-term air quality monitoring station for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$.

The most recent three (3) years of data available are shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Project Site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables

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[1] The area of route SR-60 between San Bernardino and Riverside Counties is designated as a nonattainment area for NO_2. It should be noted however, that the Project site is not located within this nonattainment area and is in fact located in an attainment area for NO_2. See Figure 5 of Appendix 2.1.

[2] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB. See Figure 17 of Appendix 2.1.

(15). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2019-2021

Pollutant	Standard	Year		
		2019	2020	2021
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.123	0.143	0.117
Maximum Federal 8-Hour Concentration (ppm)		0.096	0.115	0.097
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	24	46	20
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	59	81	57
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.5	1.9	2.1
Maximum Federal 8-Hour Concentration	> 20 ppm	1.2	1.4	1.8
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.056	0.066	0.052
Annual Average		0.014	0.014	0.014
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	99	104	76
Annual Federal Arithmetic Mean ($\mu g/m^3$)		34.4	30.0	34.2
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	21	110	16
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	46.70	41.00	82.1
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	11.13	12.63	12.58
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	4	4	10

ppm = Parts Per Million
$\mu g/m^3$ = Microgram per Cubic Meter
Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists of is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal

law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (16).

Emissions of O_3, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (17). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O_3 contour maps show that the number of days exceeding the 8-hour NAAQS has generally decreased between 1980 and 2020. For 2020, there was an overall decrease in exceedance days compared with the 1980 period. However, as shown on Table 2-5, O_3 levels have increased in the past three years due to higher temperatures and stagnant weather conditions. Notwithstanding, O_3 levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70's (18).

TABLE 2-5: SCAB O₃ TREND
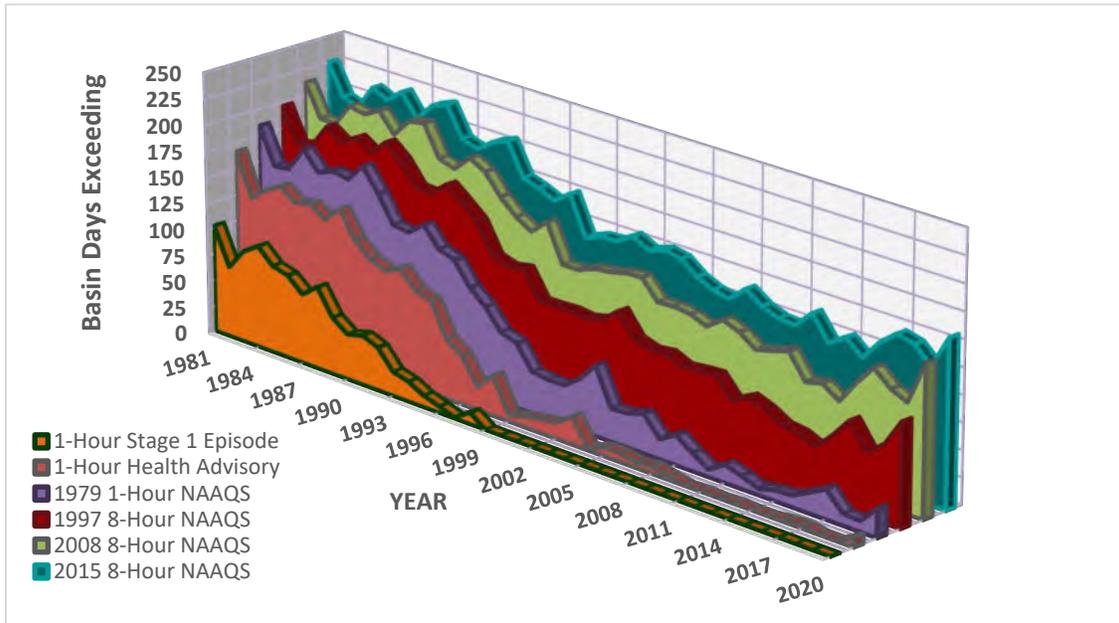
Source: 2020 SCAQMD, Historical O₃ Air Quality Trends (1976-2020)

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 46%, from 103.7 microgram per cubic meter (μg/m³) in 1988 to 55.5 μg/m³ in 2020 (19). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations would exceed the threshold. The 24-hour state annual average for emissions for PM_{10}, have decreased by approximately 64%, from 93.9 μg/m³ in 1989 to 33.9 μg/m³ in 2020 (19). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM$_{10}$ TREND (BASED ON FEDERAL STANDARD)[1]
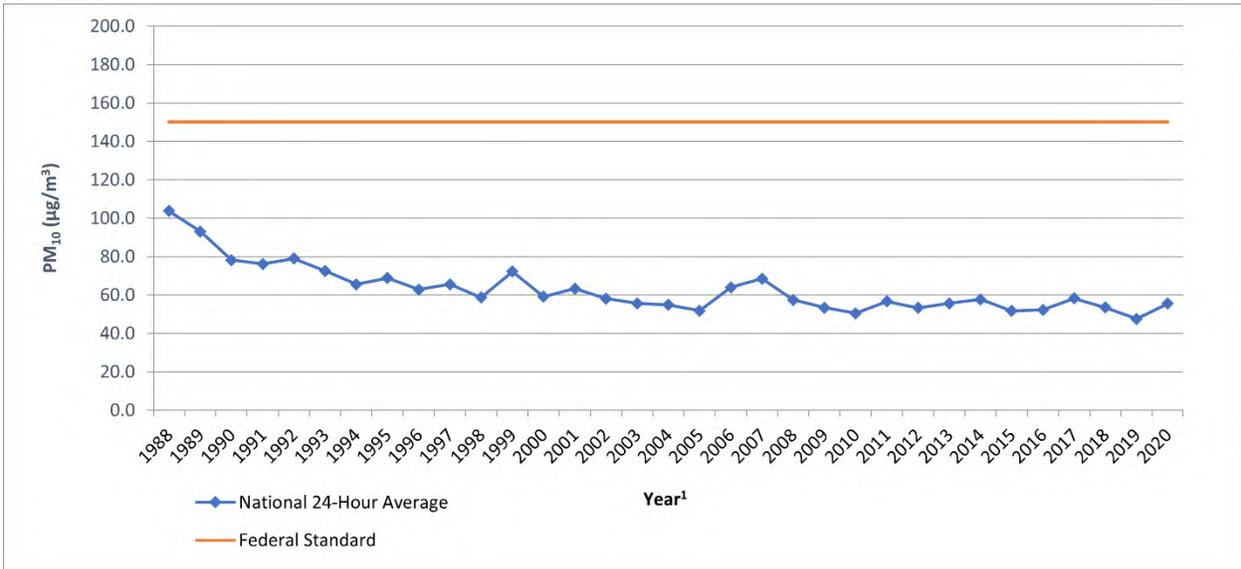
Source: 2020 CARB, iADAM: Top Four Summary: PM$_{10}$ 24-Hour Averages (1988-2020)

[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM$_{10}$ TREND (BASED ON STATE STANDARD)[1]
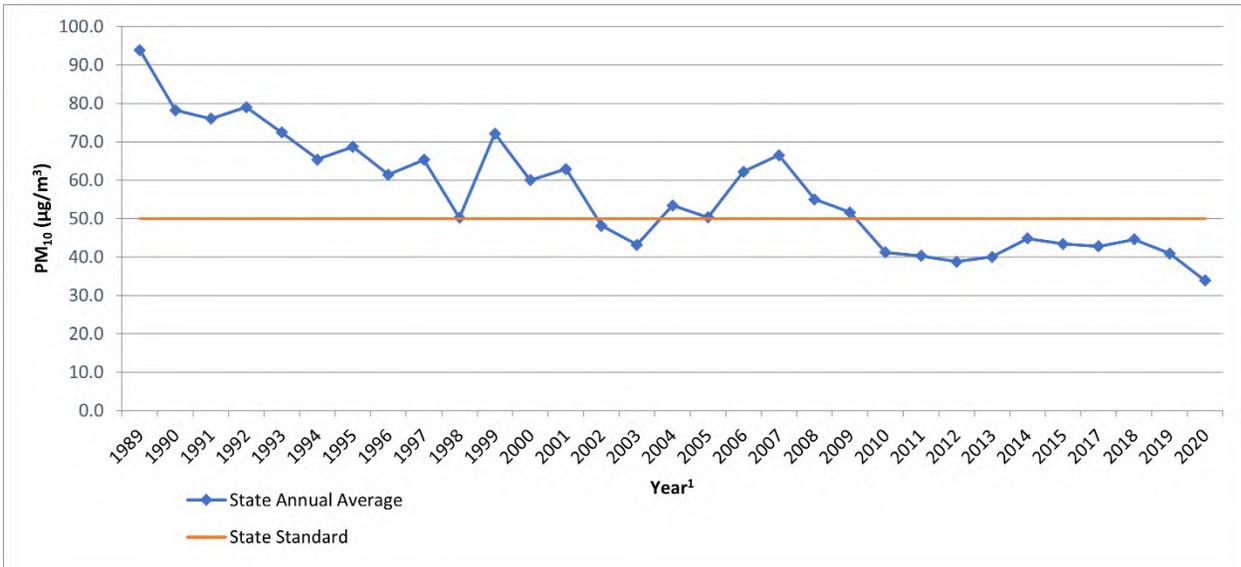
Source: 2020 CARB, iADAM: Top Four Summary: PM$_{10}$ 24-Hour Averages (1988-2020)

[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 show the most recent 24-hour average PM$_{2.5}$ concentrations in the SCAB from 1999 through 2020. Overall, the national and state annual average concentrations have decreased by almost 50% and 31% respectively (19). It should be noted that the SCAB is currently designated as nonattainment for the state and federal PM$_{2.5}$ standards.

TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM$_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]
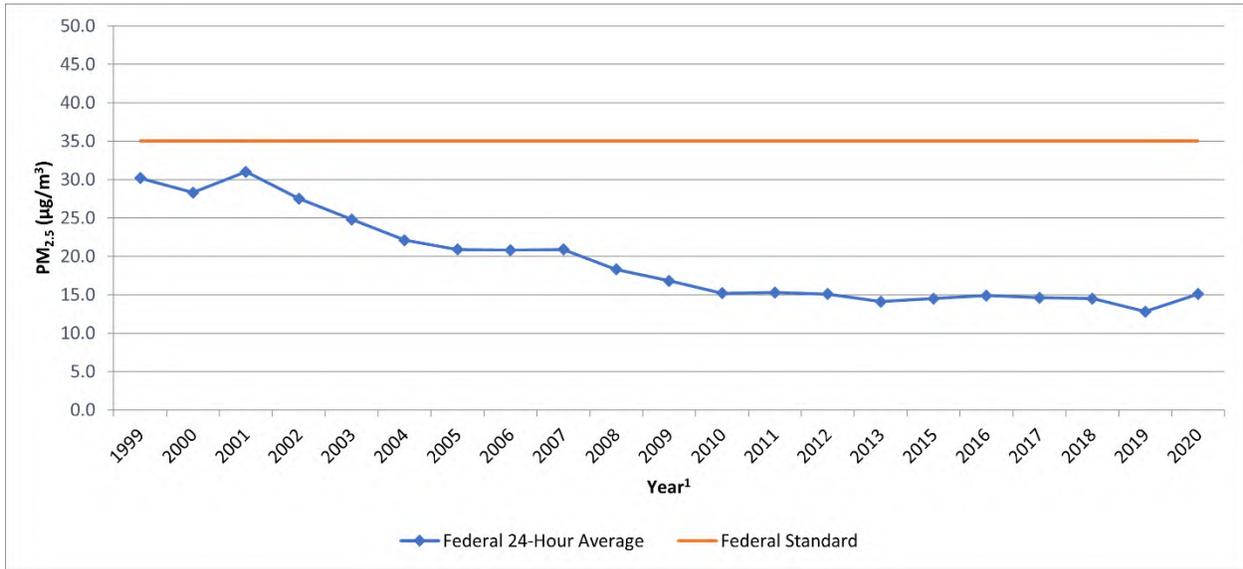
Source: 2020 CARB, iADAM: Top Four Summary: PM$_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM$_{2.5}$ TREND (BASED ON STATE STANDARD)[1]
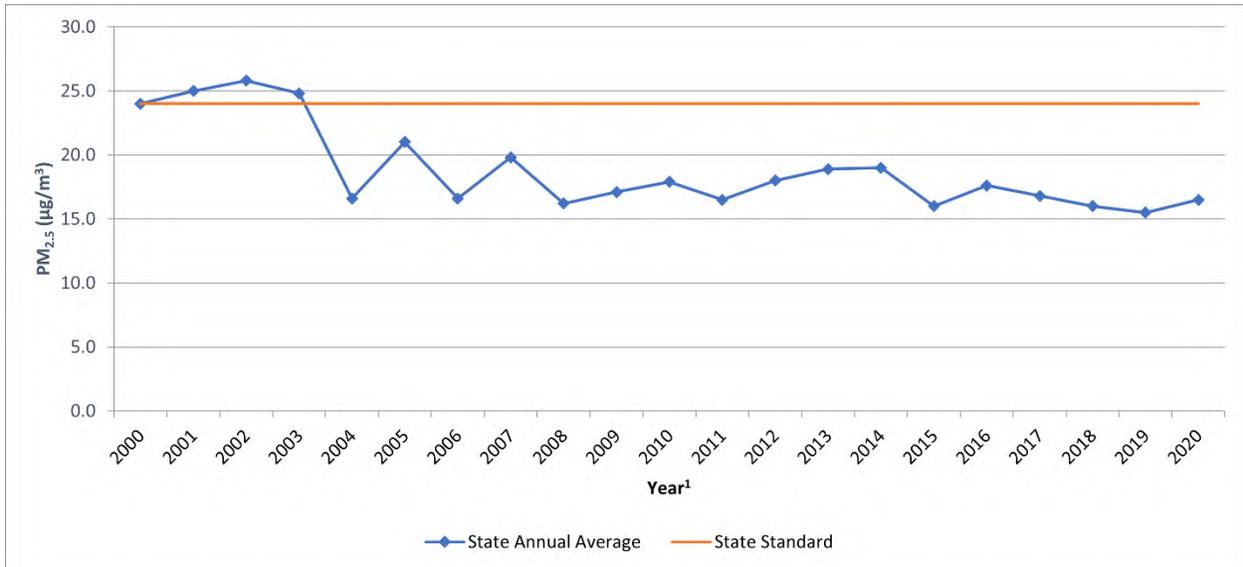
Source: 2020 CARB, iADAM: Top Four Summary: PM$_{2.5}$ 24-Hour Averages (1999-2020)
[1] Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

While the 2012 AQMP PM$_{10}$ attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM$_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM$_{2.5}$-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM$_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM$_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019. As of March 14, 2019, the EPA approved portions of a SIP revision submitted by California to address CAA requirements for the 2006 24-hour PM$_{2.5}$ NAAQS in the Los Angeles-SCAB Serious PM$_{2.5}$ nonattainment area. The EPA also approved 2017 and 2019 motor vehicle emissions budgets for transportation conformity purposes and inter-pollutant trading ratios for use in transportation conformity analyses (20).

In March 2017, the SCAQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (21). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS) and updated emission inventory methodologies for various source categories (22).

The 2022 AQMP was adopted by the SCAQMD Hearing Board on December 2, 2022. CARB approved the 2022 AQMP on January 26, 2023 and the EPA approved the 2022 AQMP on August 15, 2023 (effective September 14, 2023). The 2022 AQMP builds upon measures already in place from previous AQMPs (23). It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low NOx technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and addresses the EPA's strengthened ozone standard.

The most recent CO concentrations in the SCAB are shown in Table 2-10 (19). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80% in the peak 8-hour concentration from 1986 to 2012. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

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TABLE 2-10: SCAB 8-HOUR AVERAGE CONCENTRATION CO TREND[1]
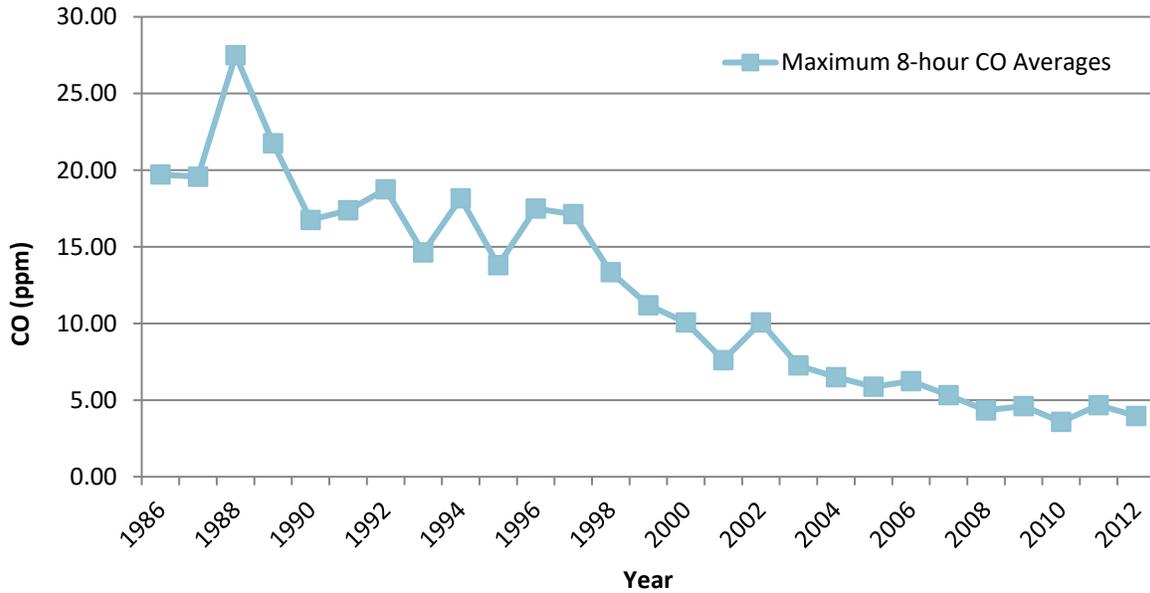
Source: 2020 CARB, iADAM: Top Four Summary: CO 8-Hour Averages (1986-2012)
[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's *CEQA Air Quality Handbook (1993)* (*1993 CEQA Handbook*) (24). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (19). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2020 is approximately 80% lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 ppm was adopted by CARB in February 2007 (25). The new standard is just barely exceeded in the SCAQMD. NO_2 is formed from NO_x emissions, which also contribute to O_3. As a result, the majority of the future emission control measures would be implemented as part of the overall O_3 control strategy. Many of these control measures would target mobile sources, which account for more than three-quarters of California's NO_x emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO₂ TREND (BASED ON FEDERAL STANDARD)
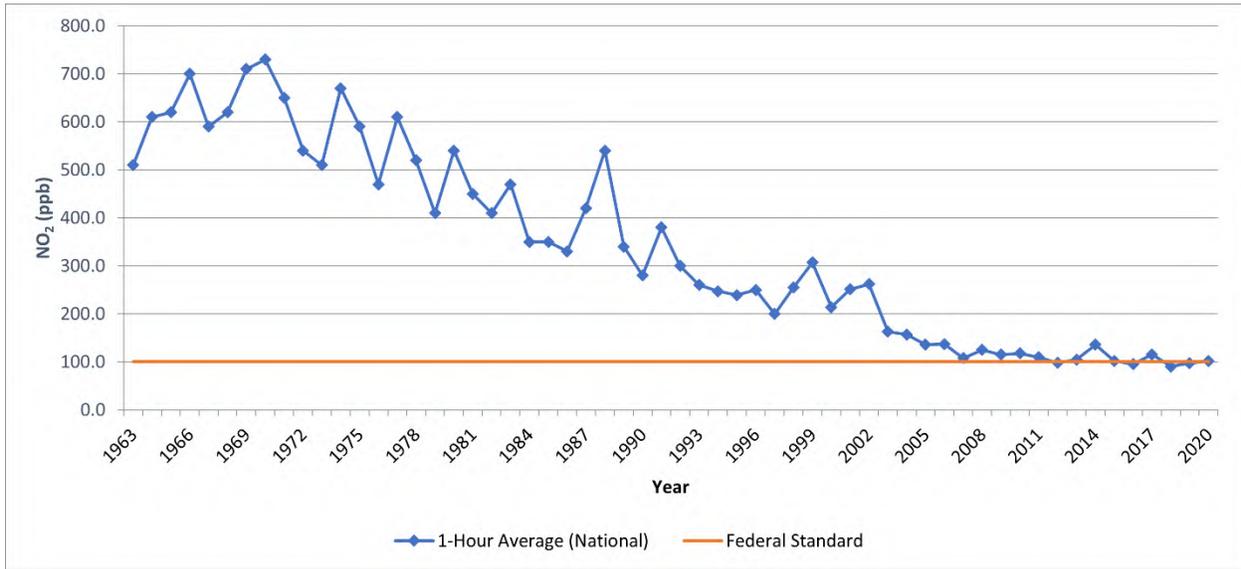
Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO₂ TREND (BASED ON STATE STANDARD)
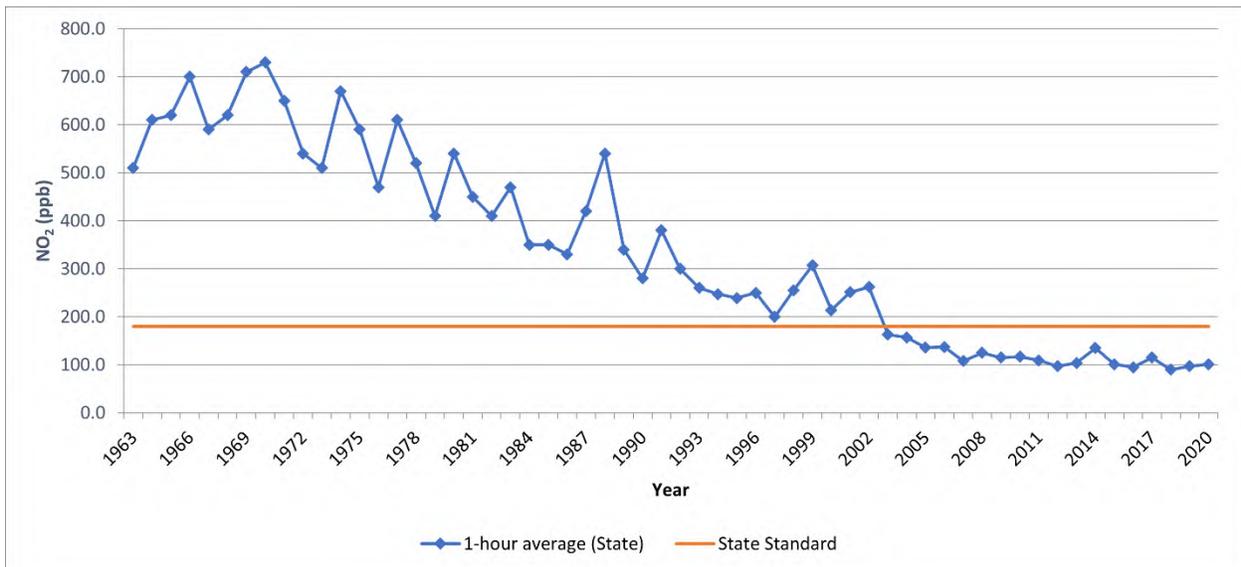
Source: 2020 CARB, iADAM: Top Four Summary: CO 1-Hour Averages (1963-2020)

2.9.1   TOXIC AIR CONTAMINANTS (TAC) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary sources, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (26) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for

the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)[3]. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

MOBILE SOURCE TACS

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase "Check Engine" or "Service Engine Soon." The system would also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. CARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 pounds (lbs). CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (26). As a result, light duty passenger cars are no longer a significant source of mobile source TAC emissions (27) (28).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15 ppm) diesel fuel. As a result of these measures, DPM concentrations from medium and heavy duty vehicles (trucks) have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, CARB expects a DPM decline of 71% for 2000-2020.

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[3] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

EXHIBIT 2-A: DPM AND DIESEL VEHICLE MILES TREND
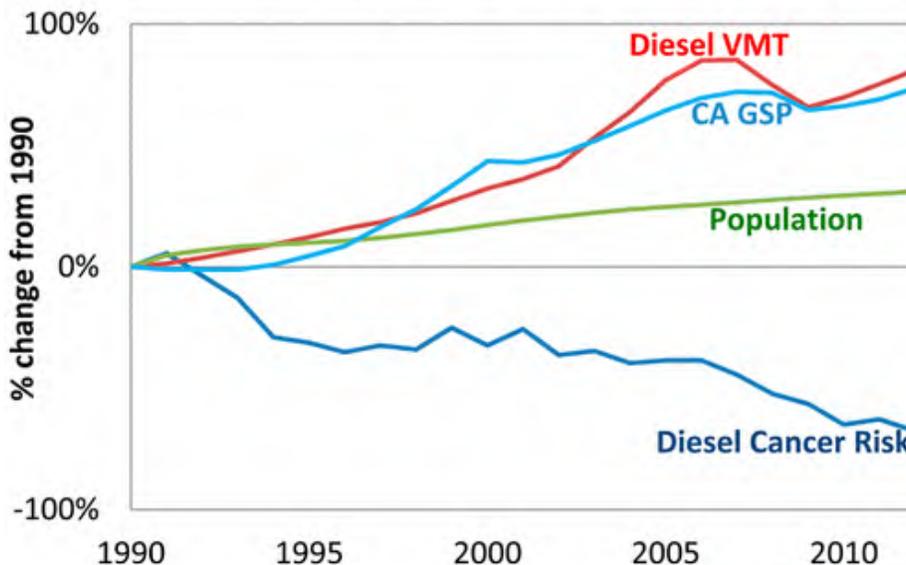
Source: 2020 CARB

DIESEL REGULATIONS

CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, CARB Drayage Truck Regulation (29), CARB statewide On-road Truck and Bus Regulation (30), and the Ports of Los Angeles and Long Beach Clean Truck Program (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (31). In other words, older more polluting trucks would be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, would dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70% of the cancer risk.

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In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements were conducted at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V also included measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (32). The final report for the MATES V study was published August 2021. In addition to new measurements and updated modeling results, several key updates were implemented in MATES V. First, MATES V estimates cancer risks by taking into account multiple exposure pathways, which includes inhalation and non-inhalation pathways. This approach is consistent with how cancer risks are estimated in South Coast AQMD's programs such as permitting, Air Toxics Hot Spots (AB2588), and CEQA. Previous MATES studies quantified the cancer risks based on the inhalation pathway only. Second, along with cancer risk estimates, MATES V includes information on the chronic non-cancer risks from inhalation and non-inhalation pathways for the first time. Cancer risks and chronic non-cancer risks from MATES II through IV measurements have been re-examined using current Office of Environmental Health Hazard Assessment (OEHHA) and CalEPA risk assessment methodologies and modern statistical methods to examine the trends over time (33).

MATES-V calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-V has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. The Project is located within a quadrant of the geographic grid of the MATES-V model which predicted a cancer risk of 359 in one million for the area. DPM is included in this cancer risk along with all other TAC sources (i.e. power plants, refineries, manufacturing facilities, boilers, and gas stations). As in previous MATES iterations, diesel PM is the largest contributor to overall air toxics cancer risk. However, the average levels of diesel PM in MATES V are 53% lower at the 10 monitoring sites compared to MATES IV. Project-generated TACs (in both the project level and cumulative analysis) are limited to DPM from trucks and emergency generators because there is no evidence that exposure to gasoline causes cancer in humans and no other sources of TAC are proposed as part of the Project (28).

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3   REGULATORY BACKGROUND

3.1   FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_X, SO_2, PM_{10}, and Pb (34). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (35). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (36) (37). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

3.2   CALIFORNIA REGULATIONS

CARB

CARB, which became part of CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO_4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the SCAB

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because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (38) (34).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;

- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);

- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;

- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;

- Significant use of low emissions vehicles by fleet operators;

- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NOX, CO and PM10. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: CALGreen is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards effective on January 1, 2023. The CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (39). The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (40):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).

- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).

- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).

- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.

- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).

- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).

- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).

- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).

- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

  - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)

  - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).

- ○ Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).

- ○ Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).

- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).

- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).

- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

AIR QUALITY MANAGEMENT PLANNING (AQMP)

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards (22). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 5.8.

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4   SIGNIFICANCE THRESHOLDS

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *Initial Study Checklist in Appendix G of the State CEQA Guidelines* (14 CCR §§ 15000, et seq.) and the March JPA 2022 CEQA Guidelines. Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.

- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.

- Expose sensitive receptors to substantial pollutant concentrations.

- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

4.1   REGIONAL SIGNIFICANCE THRESHOLDS

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 4-1 (41). The SCAQMD's *CEQA Air Quality Significance Thresholds* (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 4-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction Regional Thresholds	Operational Regional Thresholds
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb[4]	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day
Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, April 2019

4.2   LOCALIZED SIGNIFICANCE THRESHOLDS

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (*LST Methodology*) (42). The SCAQMD has established that impacts to air

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[4] Per the User Guide, CalEEMod quantifies all criteria pollutants except Pb, O_3, and NO_X. Pb is associated with some industrial sources and processes. Specific details to support broad quantification of these emissions are not currently available for CalEEMod. The Project is not expected to generate a quantifiable amount of Pb emissions and therefore further evaluation of Pb emissions is not warranted.

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quality are significant if there is a potential to contribute to or cause localized exceedances of the NAAQS and CAAQS. Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[5]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (43).

4.2.1 DISPERSION MODELING

In order to estimate localized pollutant concentrations resulting from Project construction, the SCAQMD-approved AERMOD dispersion model was utilized. The modeling approach utilized is discussed as follows:

SOURCES

It should be noted that in order to model worst-case conditions, the highest daily peak on-site emissions resulting from overlapping construction activity were modeled.

A ground level release height and a 1 meter (~3.28 feet) initial vertical dimension (sigma z) were utilized for fugitive emissions of PM_{10} and $PM_{2.5}$ consistent with SCAQMD's LST guidance.

In order to account for equipment exhaust emissions from NO_X, CO, PM_{10}, and $PM_{2.5}$, a release height of 5.0 meters (~16.40 feet) was utilized consistent with SCAQMD's LST guidance.

Exhibit 2-A from the *West Campus Upper Plateau Revised Health Risk Assessment* (44) details the placement of sources on the Project site utilized in modeling construction emissions.

METEOROLOGICAL DATA AND MODEL OPTIONS

In order to account for meteorological conditions at the Project site, meteorological data from the SCAQMD's Riverside Airport (KRAL) monitoring station was utilized, as this is the nearest station to the Project site for which meteorological data is available. Additionally, a receptor height of 2 meters and regulatory default options were utilized consistent with SCAQMD's LST guidance. The analysis conservatively assumed full conversion of NO_X emissions to NO_2.

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[5] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "…equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

4.2.2   SENSITIVE RECEPTORS

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable NAAQS and CAAQS at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities.

RESIDENTIAL RECEPTORS

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as "sensitive receptors". These structures typically include residences, hotels, hospitals, etc. as they are also known to be locations where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site (in this case the nearest residential land use) has been used to determine construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$, since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time.

NON-RESIDENTIAL RECEPTORS

As per the LST Methodology, commercial and industrial facilities are not included in the definition of sensitive receptor because employees and patrons do not typically remain onsite for a full 24 hours but are typically onsite for 8 hours or less. The LST Methodology explicitly states that "*LSTs based on shorter averaging periods, such as the NO$_2$ and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (42)." For purposes of analysis, if an industrial/commercial use is located at a closer distance to the Project site than the nearest residential use, the nearest industrial/commercial use will be utilized to determine construction and operational LST air impacts for emissions of NO_X and CO an individual could be present at these sites for periods of 1 to 8 hours.

PROJECT-RELATED SENSITIVE RECEPTORS

Sensitive receptors in the Project study area are described below:

R1:   Location R1 represents the existing residence at 20081 Camino Del Sol, approximately 331 feet and 1,033 feet north of Areas 3 and 4, respectively.

R2:   Location R2 represents the existing residence at 20351 Camino Del Sol, approximately 293 feet and 983 feet north of Areas 3 and 4, respectively. R2 is placed in the private outdoor living areas (backyard) facing the Project site.

R3:   Location R3 represents the existing residence at 20635 Camino Del Sol, approximately 299 feet and 862 feet north of Areas 3 and 5, respectively. R3 is placed in the private outdoor living areas (backyard) facing the Project site.

R4:   Location R4 represents the existing residence at 20852 Indigo Point, approximately 2,561 feet southeast of the Project site. R4 is placed in the private outdoor living areas (backyard) facing the Project site.

R5:   Location R5 represents the existing residence at 20698 Iris Canyon Road, approximately 1,620 feet southeast of the Project site. R5 is placed in the private outdoor living areas (backyard) facing the Project site.

R6:   Location R6 represents the existing residence at 8301 Clover Creek Road, approximately 1,293 feet and 779 feet north of Areas 8 and 10, respectively. R6 is placed in the private outdoor living areas (backyard) facing the Project site.

R7:   Location R7 represents the existing residence at 20304 Dayton Street, approximately 979 feet south of the Project site. R7 is placed in the private outdoor living areas (backyard) facing the Project site.

R8:   Location R8 represents the existing preschool at Grove Community Church at 19900 Grove Community Drive, approximately 794 feet southwest of the Project site. R8 is placed on the Church's building façade facing the Project site.[6]

R9:   Location R9 represents the existing residence at 8044 La Crosse Way, approximately 323 feet west of the Project site. R9 is placed in the private outdoor living areas (backyard) facing the Project site.

R10:   Location R10 represents the existing residence at 941 Saltcoats Drive, approximately 315 feet north of the Project site. R10 is placed in the private outdoor living areas (backyard) facing the Project site.

R11:   Location R11 represents the existing residence at 971 Saltcoats Drive, approximately 304 feet north of the Area 2 of the Project site. R11 is placed in the private outdoor living areas (backyard) facing the Project site.

R12:   Location R12 represents the existing residence at 20620 Iris Canyon Road, approximately 859 feet south of the of the Project site. R12 is placed in the private outdoor living areas (backyard) facing the Project site.

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[6] Receptor R8 is considered a non-residential receptor for the purposes of this analysis as an individual would not be expected to remain at this location for 24 hours.

EXHIBIT 4-A: SENSITIVE RECEPTOR LOCATIONS

LEGEND:
- Site Boundary
- Construction Area
- Receptor Locations
- Distance from receptor to Project site boundary (in feet)
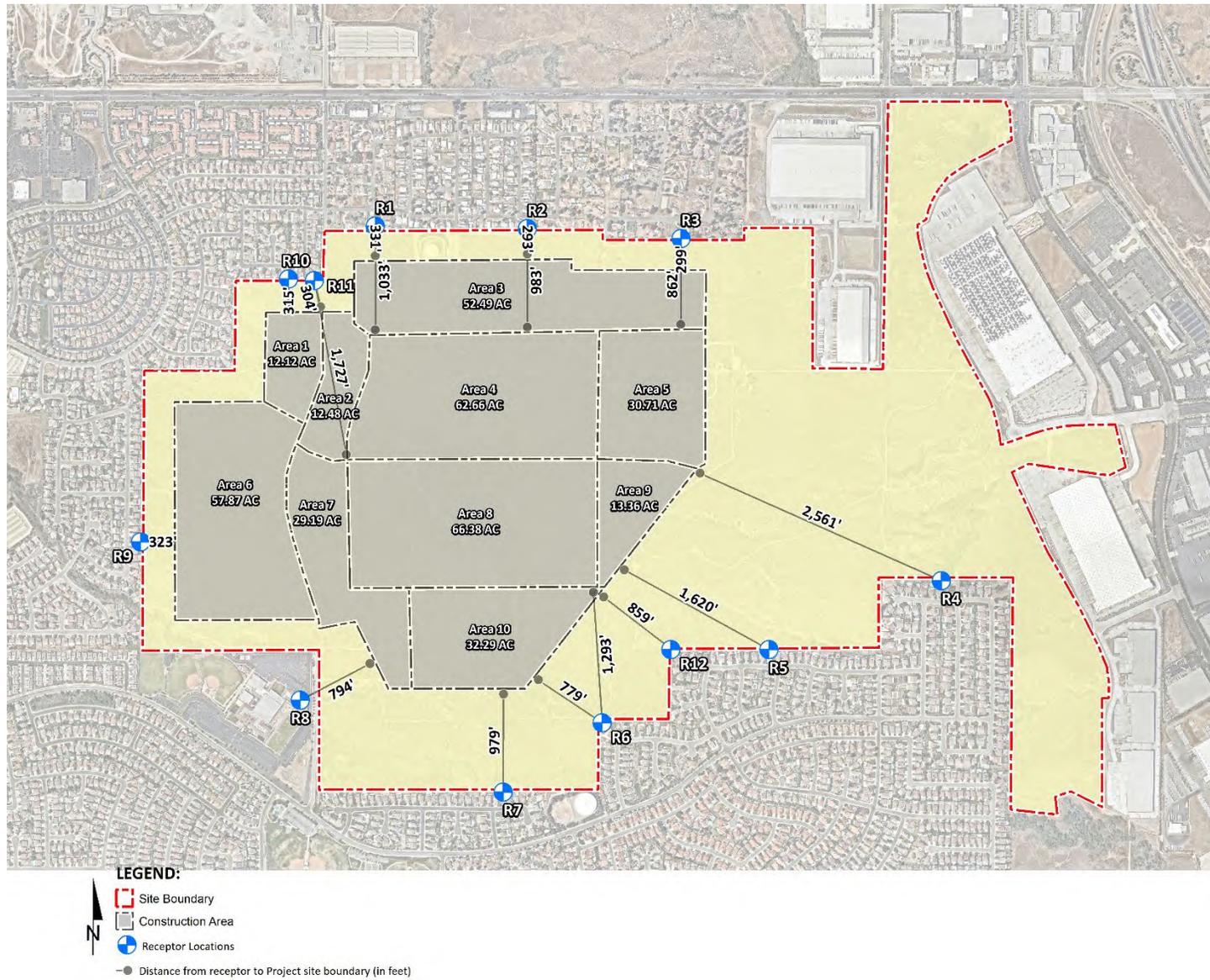
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5 AIR QUALITY IMPACTS

5.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard, contribute to an existing or projected air quality violation, or determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine consistency with the applicable AQMP, exposure of sensitive receptors to substantial pollutant concentrations, and the impacts of odors.

5.2 METHODOLOGY

5.2.1 CALEEMOD

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2022, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the CalEEMod Version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs (45). The 2022 AQIA utilized CalEEMod Version 2022.1.0.11. Since this time there have been 24 updates to the model. For purposes of this Revised AQIA, CalEEMod Version 2022.1.1.20 has been used to determine construction and operational air quality emissions for this Project. Output from the model runs for both construction and operational activity are provided in Appendices 5.1, 5.3, and 5.4.

5.3 REGIONAL CONSTRUCTION EMISSIONS

5.3.1 CONSTRUCTION ACTIVITIES

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

PHASE 1

- Mass Grading
- Blasting & Rock Handling

PHASE 2

- Remedial Grading
- Building Construction (including off-site)
- Paving

- Architectural Coating

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. Based on information provided by the Project Applicant, the Project will balance on-site and will require approximately 7,608,500 cubic yards of dirt movement.

BLASTING ACTIVITIES

Blasting is not anticipated to occur frequently in Project construction, occurring at most once per day and twice per week. Nonetheless, the emissions effects of blasting are analyzed in this Revised AQIA. The estimated emissions of NO_x, CO, and SO_x from explosives used for blasting were determined using emission factors in Section 13.3 (Explosives Detonation) of AP-42 (EPA 1980), and PM_{10} and $PM_{2.5}$ emissions were determined using Section 11.9 of AP-42 (46). According to AP-42, "Unburned hydrocarbons also result from explosions, but in most instances, methane is the only species that has been reported" (EPA 1980); methane is not a VOC, and a methane emission factor has not been determined for ammonium nitrate/fuel oil (ANFO). Additional details on the emissions calculation associated with blasting are provided in Appendix 5.2. Based on information provided by the Project Applicant, the Project will require movement of approximately 1,501,055 cubic yards of rock, though no import or export of material is expected.

CONSTRUCTION WORKER VEHICLE TRIPS

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod defaults.

5.3.2   CONSTRUCTION DURATION

For purposes of this analysis, construction was assumed to commence in June 2023 and end in October 2027. The construction schedule utilized in the analysis, shown in Table 5-1, represents a "worst-case" analysis scenario since construction would occur after the respective dates and emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[7] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (1).

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[7] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 5-1: CONSTRUCTION SCHEDULE

Phase	Construction Activity	Start Date	End Date	Days
Phase 1	Mass Grading	6/1/2023	3/5/2024	199
	Blasting & Rock Handling	6/1/2023	3/5/2024	199
Phase 2	Remedial Grading	3/6/2024	6/6/2024	67
	Building Construction (Including Off-site)	6/7/2024	10/15/2026	615
	Architectural Coating	8/1/2026	10/5/2027	307
	Paving	8/9/2027	10/5/2027	42

5.3.3 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. A detailed summary of construction equipment assumptions by phase is provided at Table 5-2.

TABLE 5-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase	Construction Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
Phase 1	Mass Grading	Rubber Tired Dozers	8	8	670	0.40
		Scrapers	16	8	570	0.48
		Rubber Tired Dozers	1	8	425	0.40
		Off-Highway Trucks	3	8	500	0.38
		Tractors/Loaders/Backhoes	1	8	425	0.37
		Excavators	4	8	400	0.38
	Blasting & Rock Handling	Rubber Tired Dozers	2	8	670	0.40
		Tractors/Loaders/Backhoes	2	8	400	0.37
		Off-Highway Trucks	3	8	425	0.38
		Rubber Tired Dozers	1	8	600	0.40
		Bore/Drill Rig	3	8	360	0.50
Phase 2	Remedial Grading	Rubber Tired Dozers	4	8	670	0.40
		Scrapers	8	8	570	0.48
		Rubber Tired Dozers	1	8	425	0.40
		Off-Highway Trucks	3	8	500	0.38
		Tractors/Loaders/Backhoes	1	8	425	0.37
		Excavators	2	8	400	0.38
	Building Construction	Cranes	2	8	231	0.29
		Crawler Tractors	3	8	212	0.43

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Phase	Construction Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
		Forklifts	6	8	89	0.20
		Generator Sets	2	8	84	0.74
		Welders	2	8	46	0.45
	Architectural Coating	Air Compressors	2	8	78	0.48
		Pavers	4	8	130	0.42
	Paving	Paving Equipment	4	8	132	0.36
		Rollers	4	8	80	0.38

5.3.4 ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, hauling, and vendors commuting to and from the site. The number of worker and vendor trips are presented below in Table 5-3.

TABLE 5-3: CONSTRUCTION TRIP ASSUMPTIONS

Phase	Construction Activity	Worker Trips Per Day	Vendor Trips Per Day
Phase 1	Mass Grading	83	114
	Blasting & Rock Handling	28	114
Phase 2	Remedial Grading	48	38
	Building Construction	1,902	352
	Architectural Coating	380	176
	Paving	30	24

5.3.5 CONSTRUCTION EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

CalEEMod calculates maximum daily emissions for summer and winter periods. As such, the estimated maximum daily construction emissions without mitigation for both summer and winter periods are summarized on Table 5-4. Detailed unmitigated construction model outputs are presented in Appendix 5.1. Under the assumed scenarios, unmitigated emissions resulting from the Project construction would exceed criteria pollutant thresholds established by the SCAQMD for VOC and NO_X.

TABLE 5-4: MAXIMUM DAILY CONSTRUCTION EMISSIONS – WITHOUT MITIGATION

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
Summer									
Phase 1	2023	Mass Grading	Construction Equipment	31.51	339.06	214.24	0.69	11.92	10.96
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.55	4.61	8.78	0.03	2.10	0.57
		Phase 1 Mass Grading Emissions Totals		**32.06**	**343.67**	**223.02**	**0.72**	**33.77**	**19.89**
		Blasting & Rock Handling	Construction Equipment	6.33	64.88	41.60	0.20	2.03	1.87
			Dust from Material Movement	0	0	0	0	34.23	8.74
			Worker, Vendor, Hauling Trips	0.25	4.32	3.80	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**6.58**	**69.21**	**45.40**	**0.23**	**37.65**	**11.01**
	2024	Mass Grading	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Mass Grading Emissions Totals		**0**	**0**	**0**	**0**	**0**	**0**
		Blasting & Rock Handling	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Blasting & Rock Handling Totals		**0**	**0**	**0**	**0**	**0**	**0**
Phase 2	2024	Remedial Grading	Construction Equipment	17.23	174.78	117.38	0.38	6.21	5.71
			Dust from Material Movement	0	0	0	0	10.72	4.62
			Worker, Vendor, Hauling Trips	0.28	1.57	4.38	0.01	0.96	0.25
		Phase 2 Remedial Grading Emissions Totals		**17.51**	**176.34**	**121.76**	**0.39**	**17.90**	**10.58**
		Building Construction	Construction Equipment	3.98	39.60	31.20	0.07	1.62	1.49
			Worker, Vendor, Hauling Trips	10.07	21.58	162.64	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**14.05**	**61.18**	**193.85**	**0.14**	**29.65**	**8.30**
	2025	Building Construction	Construction Equipment	3.64	35.83	30.39	0.07	1.41	1.30
			Worker, Vendor, Hauling Trips	8.75	20.14	150.56	0.08	28.03	6.82

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Phase	Year	Construction Activity	Source	VOC	NOₓ	CO	SOₓ	PM₁₀	PM₂.₅
			Total Construction-Source Emissions (lbs/day)						
		Phase 2 Building Construction Emissions Totals		**12.39**	**55.97**	**180.95**	**0.14**	**29.44**	**8.11**
	2026	Building Construction	Construction Equipment	3.41	33.51	29.94	0.07	1.25	1.15
			Worker, Vendor, Hauling Trips	8.28	18.78	140.08	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**11.69**	**52.29**	**170.02**	**0.14**	**29.28**	**7.97**
		Architectural Coating	Construction Equipment	0.68	4.81	6.37	0.01	0.13	0.12
			Architectural Coatings	83.00	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.72	7.15	29.07	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**85.40**	**11.96**	**35.44**	**0.05**	**6.69**	**1.78**
	2027	Paving	Construction Equipment	1.69	15.19	29.24	0.05	0.72	0.66
			Paving	12.15	0	0	0	0	0
			Worker, Vendor, Hauling Trips	0.14	0.85	2.23	0.01	0.61	0.16
		Phase 2 Paving Emissions Totals		**13.98**	**16.03**	**31.47**	**0.05**	**1.32**	**0.82**
		Architectural Coating	Construction Equipment	0.64	4.67	6.33	0.01	0.11	0.10
			Architectural Coatings	83.00	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.64	6.76	26.98	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**85.27**	**11.43**	**33.30**	**0.05**	**6.66**	**1.76**
		Winter							
Phase 1	2023	Mass Grading	Construction Equipment	31.51	339.06	214.24	0.69	11.92	10.96
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.52	4.89	7.01	0.03	2.10	0.57
		Phase 1 Mass Grading Emissions Totals		**32.03**	**343.95**	**221.25**	**0.72**	**33.77**	**19.89**
		Blasting & Rock Handling	Construction Equipment	6.33	64.88	41.60	0.20	2.03	1.87
			Dust from Material Movement	0	0	0	0	34.23	8.74
			Worker, Vendor, Hauling Trips	0.24	4.55	3.23	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**6.57**	**69.43**	**44.83**	**0.23**	**37.65**	**11.01**
	2024	Mass Grading	Construction Equipment	30.97	321.90	209.64	0.69	11.32	10.41
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.50	4.67	6.48	0.03	2.10	0.57

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
		Phase 1 Mass Grading Emissions Totals		**31.47**	**326.57**	**216.12**	**0.72**	**33.16**	**19.34**
		Blasting & Rock Handling	Construction Equipment	6.39	63.17	40.80	0.18	1.99	1.83
			Dust from Material Movement	0	0	0	0	5.11	2.63
			Worker, Vendor, Hauling Trips	0.23	4.36	3.01	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**6.62**	**67.52**	**43.81**	**0.21**	**8.48**	**4.86**
Phase 2	2024	Remedial Grading	Construction Equipment	17.23	174.78	117.38	0.38	6.21	5.71
			Dust from Material Movement	0	0	0	0	10.72	4.62
			Worker, Vendor, Hauling Trips	0.26	1.67	3.42	0.01	0.96	0.25
		Phase 2 Remedial Grading Emissions Totals		**17.49**	**176.44**	**120.80**	**0.39**	**17.90**	**10.58**
		Building Construction	Construction Equipment	3.98	39.60	31.20	0.07	1.62	1.49
			Worker, Vendor, Hauling Trips	9.47	23.78	123.99	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**13.45**	**63.38**	**155.19**	**0.14**	**29.65**	**8.30**
	2025	Building Construction	Construction Equipment	3.64	35.83	30.39	0.07	1.41	1.30
			Worker, Vendor, Hauling Trips	8.23	21.56	114.77	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**11.87**	**57.39**	**145.16**	**0.14**	**29.44**	**8.11**
	2026	Building Construction	Construction Equipment	3.41	33.51	29.94	0.07	1.25	1.15
			Worker, Vendor, Hauling Trips	7.80	20.13	107.17	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**11.21**	**53.63**	**137.12**	**0.14**	**29.28**	**7.97**
		Architectural Coating	Construction Equipment	0.68	4.81	6.37	0.01	0.13	0.12
			Architectural Coatings	83.00	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.62	7.57	22.52	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**85.30**	**12.38**	**28.88**	**0.05**	**6.69**	**1.78**
	2027	Paving	Construction Equipment	1.69	15.19	29.24	0.05	0.72	0.66
			Paving	12.15	0	0	0	0	0
			Worker, Vendor, Hauling Trips	0.13	0.89	1.75	0.01	0.61	0.16
		Phase 2 Paving Emissions Totals		**13.97**	**16.08**	**30.99**	**0.05**	**1.32**	**0.82**
		Architectural Coating	Construction Equipment	0.64	4.67	6.33	0.01	0.11	0.10
			Architectural Coatings	83.00	0	0	0	0	0

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
			Worker, Vendor, Hauling Trips	1.54	7.18	20.86	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**85.18**	**11.85**	**27.18**	**0.05**	**6.66**	**1.76**
		Maximum Daily Emissions							
		Construction Maximum Daily Emissions (2023)		**38.64**	**413.38**	**268.42**	**0.95**	**71.41**	**30.91**
		Construction Maximum Daily Emissions (2024)		**38.09**	**394.09**	**259.93**	**0.92**	**41.65**	**24.20**
		Construction Maximum Daily Emissions (2025)		**12.39**	**57.39**	**180.95**	**0.14**	**29.44**	**8.11**
		Construction Maximum Daily Emissions (2026)		**97.09**	**66.01**	**205.46**	**0.19**	**35.97**	**9.75**
		Construction Maximum Daily Emissions (2027)		**99.25**	**27.93**	**64.77**	**0.10**	**7.99**	**2.58**
		SCAQMD Regional Threshold		75	100	550	150	150	55
		Threshold Exceeded?		**YES**	**YES**	**NO**	**NO**	**NO**	**NO**

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IMPACTS WITH MITIGATION

As previously stated, the Project will implement construction MMs AQ-1 through AQ-4, which would reduce construction-source emissions. The following construction MMs are quantifiable in CalEEMod:

- MM AQ-1: Assumed the use of construction equipment that meets or exceeds Tier 4 Final emission standards.

- MM AQ-4: Assumed the use of "Super-Compliant" architectural coatings with no more than 10 g/L of VOC.

MM AQ-2 requires the Project to ensure construction activities occur within the assumptions utilized in this Revised AQIA. While MM AQ-3 would reduce construction-source emissions, the resulting emission reductions are not quantifiable in CalEEMod, and as such reductions were not quantified and are therefore not reflected in the analysis.

As shown in Table 5-5, after implementation of MMs AQ-1 through AQ-4, Project construction-source emissions of VOC and NO_X would not exceed applicable SCAQMD thresholds. It should be noted that the use of Tier 4 construction equipment under the mitigated scenario would reduce NO_X, PM_{10}, and $PM_{2.5}$ emissions but result in a potential increase in CO emissions. This is attributable to some emission control technologies, such as exhaust gas recirculation, that reduce NO_X emissions while increasing CO emissions. However, CO emissions under the mitigated scenario would remain below the applicable SCAQMD significance threshold. Detailed mitigated construction model outputs are presented in Appendix 5.1.

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TABLE 5-5: MAXIMUM DAILY CONSTRUCTION EMISSIONS – WITH MITIGATION

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
Summer									
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.81	368.08	0.69	1.42	1.42
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.55	4.61	8.78	0.03	2.10	0.57
		Phase 1 Mass Grading Emissions Totals		**7.63**	**41.42**	**376.86**	**0.72**	**23.26**	**10.35**
		Blasting & Rock Handling	Construction Equipment	1.85	9.83	96.97	0.20	0.37	0.37
			Dust from Material Movement	0	0	0	0	34.23	8.74
			Worker, Vendor, Hauling Trips	0.25	4.32	3.80	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**2.10**	**14.15**	**100.77**	**0.23**	**35.99**	**9.52**
	2024	Mass Grading	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Mass Grading Emissions Totals		**0**	**0**	**0**	**0**	**0**	**0**
		Blasting & Rock Handling	Construction Equipment	n/a	n/a	n/a	n/a	n/a	n/a
			Dust from Material Movement	n/a	n/a	n/a	n/a	n/a	n/a
			Worker, Vendor, Hauling Trips	n/a	n/a	n/a	n/a	n/a	n/a
		Phase 1 Blasting & Rock Handling Totals		**0**	**0**	**0**	**0**	**0**	**0**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.46	204.61	0.38	0.79	0.79
			Dust from Material Movement	0	0	0	0	10.72	4.62
			Worker, Vendor, Hauling Trips	0.28	1.57	4.38	0.01	0.96	0.25
		Phase 2 Remedial Grading Emissions Totals		**4.21**	**22.03**	**208.99**	**0.39**	**12.47**	**5.66**
		Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	10.07	21.58	162.64	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**10.70**	**26.52**	**199.40**	**0.14**	**28.15**	**6.94**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	8.75	20.14	150.56	0.08	28.03	6.82

Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
		Phase 2 Building Construction Emissions Totals		**9.38**	**25.08**	**187.32**	**0.14**	**28.15**	**6.94**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	8.28	18.78	140.08	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**8.91**	**23.71**	**176.84**	**0.14**	**28.15**	**6.94**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.01	0.01	0.01
			Architectural Coatings	18.91	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.72	7.15	29.07	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**20.70**	**7.49**	**33.96**	**0.05**	**6.57**	**1.67**
	2027	Paving	Construction Equipment	0.47	2.43	34.59	0.05	0.09	0.09
			Paving	12.15	0	0	0	0	0
			Worker, Vendor, Hauling Trips	0.14	0.85	2.23	0.01	0.61	0.16
		Phase 2 Paving Emissions Totals		**12.76**	**3.28**	**36.82**	**0.05**	**0.70**	**0.25**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.01	0.01	0.01
			Architectural Coatings	18.91	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.64	6.76	26.98	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**20.61**	**7.10**	**31.86**	**0.05**	**6.57**	**1.67**
	Winter								
Phase 1	2023	Mass Grading	Construction Equipment	7.08	36.81	368.08	0.69	1.42	1.42
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.52	4.89	7.01	0.03	2.10	0.57
		Phase 1 Mass Grading Emissions Totals		**7.59**	**41.70**	**375.09**	**0.72**	**23.26**	**10.35**
		Blasting & Rock Handling	Construction Equipment	1.85	9.83	96.97	0.20	0.37	0.37
			Dust from Material Movement	0	0	0	0	34.23	8.74
			Worker, Vendor, Hauling Trips	0.24	4.55	3.23	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**2.09**	**14.38**	**100.20**	**0.23**	**35.99**	**9.52**
	2024	Mass Grading	Construction Equipment	7.08	36.81	368.08	0.69	1.42	1.42
			Dust from Material Movement	0	0	0	0	19.74	8.36
			Worker, Vendor, Hauling Trips	0.50	4.67	6.48	0.03	2.10	0.57

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Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
		Phase 1 Mass Grading Emissions Totals		**7.57**	**41.48**	**374.56**	**0.72**	**23.26**	**10.35**
		Blasting & Rock Handling	Construction Equipment	1.85	9.61	96.14	0.18	0.37	0.37
			Dust from Material Movement	0	0	0	0	5.11	2.63
			Worker, Vendor, Hauling Trips	0.23	4.36	3.01	0.03	1.39	0.41
		Phase 1 Blasting & Rock Handling Totals		**2.08**	**13.97**	**99.15**	**0.21**	**6.87**	**3.40**
Phase 2	2024	Remedial Grading	Construction Equipment	3.93	20.46	204.61	0.38	0.79	0.79
			Dust from Material Movement	0	0	0	0	10.72	4.62
			Worker, Vendor, Hauling Trips	0.26	1.67	3.42	0.01	0.96	0.25
		Phase 2 Remedial Grading Emissions Totals		**4.20**	**22.13**	**208.04**	**0.39**	**12.47**	**5.66**
		Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	9.47	23.78	123.99	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**10.10**	**28.72**	**160.75**	**0.14**	**28.15**	**6.94**
	2025	Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	8.23	21.56	114.77	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**8.86**	**26.50**	**151.53**	**0.14**	**28.15**	**6.94**
	2026	Building Construction	Construction Equipment	0.63	4.94	36.76	0.07	0.12	0.12
			Worker, Vendor, Hauling Trips	7.80	20.13	107.17	0.08	28.03	6.82
		Phase 2 Building Construction Emissions Totals		**8.43**	**25.06**	**143.93**	**0.14**	**28.15**	**6.94**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.01	0.01	0.01
			Architectural Coatings	18.91	0	0	0	0	0
			Worker, Vendor, Hauling Trips	1.62	7.57	22.52	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**20.60**	**7.91**	**27.40**	**0.05**	**6.57**	**1.67**
	2027	Paving	Construction Equipment	0.47	2.43	34.59	0.05	0.09	0.09
			Paving	12.15	0	0	0	0	0
			Worker, Vendor, Hauling Trips	0.13	0.89	1.75	0.01	0.61	0.16
		Phase 2 Paving Emissions Totals		**12.75**	**3.32**	**36.34**	**0.05**	**0.70**	**0.25**
		Architectural Coating	Construction Equipment	0.07	0.34	4.89	0.01	0.01	0.01
			Architectural Coatings	18.91	0	0	0	0	0

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Phase	Year	Construction Activity	Source	Total Construction-Source Emissions (lbs/day)					
				VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
			Worker, Vendor, Hauling Trips	1.54	7.18	20.86	0.04	6.56	1.66
		Phase 2 Architectural Coating Emissions Totals		**20.52**	**7.52**	**25.74**	**0.05**	**6.57**	**1.67**
		Maximum Daily Emissions							
		Construction Maximum Daily Emissions (2023)		**9.73**	**56.07**	**477.63**	**0.95**	**59.25**	**19.86**
		Construction Maximum Daily Emissions (2024)		**10.70**	**55.44**	**473.71**	**0.92**	**30.13**	**13.75**
		Construction Maximum Daily Emissions (2025)		**9.38**	**26.50**	**187.32**	**0.14**	**28.15**	**6.94**
		Construction Maximum Daily Emissions (2026)		**29.60**	**32.97**	**210.80**	**0.19**	**34.72**	**8.61**
		Construction Maximum Daily Emissions (2027)		**33.36**	**10.84**	**68.68**	**0.10**	**7.27**	**1.93**
		SCAQMD Regional Threshold		75	100	550	150	150	55
		Threshold Exceeded?		**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

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5.4   REGIONAL OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO$_X$, SO$_X$, CO, PM$_{10}$, and PM$_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions

- Energy Source Emissions

- Mobile Source Emissions

- TRU Source Emissions

- On-Site Equipment Source Emissions

- Stationary Source Emissions

5.4.1   AREA SOURCE EMISSIONS

CalEEMod estimates area source emissions for the following sources: architectural coating, consumer products, and landscape maintenance equipment. Detailed operational model outputs are presented in Appendix 5.3.

ARCHITECTURAL COATING

Over a period of time, the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using CalEEMod.

CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form O$_3$ and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. On October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by 2024. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod. It should be noted that the version of CalEEMod that was employed for this analysis does not account for AB 1346. As such, emissions associated with landscape maintenance equipment are conservative.

5.4.2 ENERGY SOURCE EMISSIONS

The Project will not use natural gas (PDF AQ-1). Criteria pollutant emissions are emitted through the generation of electricity. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance.

This analysis assumes that no natural gas will be used as part of the Project. Electricity would be supplied to the Project by Riverside Public Utilities (RPU). Electricity usage associated with the Project were calculated by CalEEMod using default parameters.

5.4.3 MOBILE SOURCE EMISSIONS

The Project related operational emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *West Campus Upper Plateau Traffic Analysis* were utilized in this analysis (4). The mobile-source emissions were calculated based on trip rates and trip lengths. Detailed operational model outputs are presented in Appendices 5.4 through 5.7.

Per the *West Campus Upper Plateau Traffic Analysis*, the Project is expected to generate a total of approximately of 35,314 trip-ends per day with 1,761 AM peak hour trips and 3,389 PM peak hour trips (in actual vehicles) (4).

5.4.3.1 APPROACH FOR ANALYSIS

TRIP RATES

The trip generation rates used for this analysis are consistent with the rates provided in the *West Campus Upper Plateau Traffic Analysis* which are based upon information collected by the Institute of Transportation Engineers (ITE) as provided in the *Trip Generation Manual*, 11th Edition, 2021 (4).

TRIP LENGTHS

To determine emissions associated with the retail, active park, and public park land uses from all vehicle types (Light-Duty-Auto vehicles [LDA], Light-Duty Trucks [LDT1][8], Light-Duty Trucks [LDT2][9], Medium-Duty Trucks [MDV], Other Buses [OBUS][10]], Urban Buses [UBUS][11]], Motorcycle [MCY], School Buses [SBUS], and Motor Homes [MH], heavy duty trucks (2-axle/Light-Heavy-Duty Trucks [LHDT1][12] and LHDT2][13]], 3-axle/Medium-Heavy-Duty Trucks [MHDT], and 4+-axle/Heavy-Heavy-Duty Trucks [HHDT]), the CalEEMod default for vehicle type, trip purpose and one-way trip length was employed. In order to determine emissions from passenger car vehicles, CalEEMod defaults for trip length and trip purpose were utilized. Default vehicle trip lengths for primary

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[8] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[9] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

[10] OBUS vehicle classes refers to all other buses except school buses and urban buses.

[11] UBUS vehicle classes consist of natural gas buses, gasoline buses, and diesel buses.

[12] Vehicles under the LHDT1 category have a GVWR of less than 8,501-10,000 lbs.

[13] Vehicles under the LHDT2 category have a GVWR of less than 10,001-14,000 lbs.

trips were populated using data from the local metropolitan planning organizations/Regional Transportation Planning Agencies (MPO/RTPA). Trip type percentages and trip lengths provided by MPO/RTPAs truncate data at their demonstrative borders.

To determine emissions from passenger car vehicles associated with the high-cube fulfillment center and business park uses, the CalEEMod defaults for trip purpose and trip length were utilized. It should also be noted that for purposes of this analysis, passenger cars related to the high-cube fulfillment center and business park uses include LDA, LDT1, LDT2, MDV, and MCY vehicle types. To account for emissions generated by passenger cars, the following fleet mix was utilized in this analysis:

TABLE 5-6: PASSENGER CAR FLEET MIX

Land Use	% Vehicle Type				
	LDA	**LDT1**	**LDT2**	**MDV**	**MCY**
Building B: High-Cube Fulfillment Center	53.71%	3.92%	23.01%	16.92%	2.44%
Building C: High-Cube Fulfillment Center					
High-Cube Cold Storage Use					
Remaining Industrial: High-Cube Fulfillment Center					
Business Park					
Business Park (Mixed-Use, 75%)					

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, MDV, and MCY vehicle types.

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length of 14.2 miles for 2-axle and 3-axle (LHDT1, LHDT2, and MHDT) trucks and 40 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using traffic trip percentages taken from the *West Campus Upper Plateau Traffic Study*. The trip length function for the high-cube fulfillment center and the business park uses has been conservatively calculated to 32.03 miles, with an assumption of 100% primary trips for the proposed industrial land uses. This trip length assumption is conservative because it is higher than the CalEEMod default trip length of 20.04 miles. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT1[14] & LHDT2 [15])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the following fleet obtained from the Project traffic study mix was utilized in this analysis:

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[14] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[15] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

TABLE 5-7: TRUCK FLEET MIX

Land Use	% Vehicle Type			
	LHDT1	LHDT2	MHDT	HHDT
Building B: High-Cube Fulfillment Center	68.66%	13.32%	3.81%	14.21%
Building C: High-Cube Fulfillment Center				
High-Cube Cold Storage Use				
Remaining Industrial: High-Cube Fulfillment Center				
Business Park				
Business Park (Mixed-Use, 75%)				

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of brake and tire wear particulates. The emissions estimates for travel on paved roads were calculated using CalEEMod.

5.4.4   TRU SOURCE EMISSIONS

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage land use are assumed to also have TRUs. Therefore, for modeling purposes, 188 trucks (376 two-way truck trips per day) have the potential to include TRUs. TRUs are accounted for during on-site and off-site travel. Consistent with the methodology presented in Appendix F of CARB's *Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate* (47), it was estimated that each TRU would spend approximately 3.3 hours per load at the facility, and that the TRU engine would operate 62.5% of the time. Thus, it was estimated that for each two-way truck trip servicing the refrigerated warehouse portion of the Project, the TRU engine would operate for approximately 2.1 hours while on-site and parked at the loading docks. With implementation of MM AQ-8, which requires electric hook-ups at all TRU loading docks, it was estimated that the TRU engine would operate for 30 minutes while on site, but not at a loading dock, in the with mitigation scenario.

For the without mitigation scenario, it was conservatively estimated that each TRU engine would operate 4 hours per day (on-site and off-site). With the installation of electrical hookups at all TRU loading docks as described in MM AQ-8, it was assumed that TRU engine operation time would be reduced to 2.5 hours per day per TRU for the with mitigation scenario. The TRU calculations are based on CARB's OFFROAD Model version 2021 (OFFROAD2021). OFFROAD2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent

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with assumptions used in the modeling of project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and converting the daily emission levels into hourly emission rates based on the total emission of each criteria pollutant by equipment type and the average daily hours of operation. TRU emission calculations are presented in Appendix 5.5.

5.4.5 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for warehouse buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, it was conservatively assumed that a total of 18 diesel-powered tractors/loaders/backhoes[16] rated at 84 horsepower would operate 4 hours per day[17], 365 days per year. On-site cargo handling equipment emissions were modeled in CalEEMod assuming average tier equipment (which utilizes the fleet average engine tier for the Project's opening year) for the without mitigation scenario and Tier 4 Final equipment with mitigation. MM AQ-18 requires the Project building occupants to utilize either electric, hydrogen-fuel cell or compressed natural gas equipment. Tier 4 diesel-powered yard hostlers can only be used if electric equipment is technically infeasible. Modeling Tier 4 equipment for the mitigated scenario conservatively understates the emissions reductions under MM AQ-18 to provide the "worst case scenario."

5.4.6 STATIONARY SOURCES

The proposed Project was conservatively assumed to include installation of a 300-horsepower diesel-powered generator at each industrial building, for a total of 19 emergency generators. Each generator was estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Emissions associated with the stationary diesel-powered emergency generators were calculated using CalEEMod assuming CalEEMod defaults for the without mitigation scenario and Tier 4 Final generators with mitigation. MM AQ-24 prohibits the use of diesel-powered back-up generators, unless absolutely necessary, and then only Tier 4 Final or better. Modeling Tier 4 diesel generators for the mitigated scenario conservatively understates the emissions reductions under MM AQ-24 to provide the "worst case scenario."

5.4.7 OPERATIONAL EMISSIONS SUMMARY

IMPACTS WITHOUT MITIGATION

Project mobile source emissions impacts are dependent on both overall daily vehicle trip generation and the effect of the Project on peak hour traffic volumes and traffic operations in

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[16] Based on SCAQMD's April 2021 Second Draft Report for Rule 2305, it is estimated that warehouses operate an average of 3.6 yard trucks per million square feet of warehouse space.

[17] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

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the vicinity of the Project. The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project.

The estimated operational-source emissions for the proposed Project without mitigation are summarized on Table 5-8. Detailed operational model outputs are presented in Appendices 5.4 through 5.7. As shown, the proposed Project will exceed the applicable SCAQMD thresholds for VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$.

TABLE 5-8: SUMMARY OF PEAK OPERATIONAL EMISSIONS – WITHOUT MITIGATION

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Mobile Source	174.00	308.00	2,148.00	6.90	577.00	151.00
Area Source	158.00	1.82	217.00	0.01	0.39	0.29
Energy Source	0	0	0	0	0	0
Operational Equipment	0.85	8.63	17.20	0.02	0.24	0.22
Stationary Source	18.70	52.30	47.70	0.09	2.75	2.75
TRU Source	55.30	58.03	6.68	0.00	1.89	1.74
Total Maximum Daily Emissions	**406.85**	**428.78**	**2,436.58**	**7.02**	**582.27**	**156.00**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	166.00	328.00	1,762.00	6.52	577.00	151.00
Area Source	122.00	0	0	0	0	0
Energy Source	0	0	0	0	0	0
Operational Equipment	0.85	8.63	17.20	0.02	0.24	0.22
Stationary Source	18.70	52.30	47.70	0.09	2.75	2.75
TRU Source	55.30	58.03	6.68	0.00	1.89	1.74
Total Maximum Daily Emissions	**362.85**	**446.96**	**1,833.58**	**6.63**	**581.88**	**155.71**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

IMPACTS WITH MITIGATION

As previously stated, the Project will implement operational MMs AQ-5 through AQ-27, which would reduce Project operational-source emissions. The following operational MMs are quantifiable in CalEEMod:

- MM AQ-8: Assumed the use of electrical hookups for all TRU loading docks, reducing TRU engine operation time from 4 hours per TRU to 2.5 hours per TRU.

- MM AQ-14: Assumed the use of all electric or battery-operated landscaping equipment.

- MM AQ-18: Assumed the use of operational on-site cargo handling equipment that meets or exceeds Tier 4 Final emissions standards.

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- MM AQ-24: Assumed the use of emergency generators that meet or exceed Tier 4 Final emissions standards.

While the remaining operational mitigation measures would reduce Project operational-source emissions, the resulting emission reductions are not quantifiable in CalEEMod, and as such reductions were not quantified and are therefore not reflected in the analysis.

As shown in Table 5-9, after accounting for MMs AQ-8, AQ-14, AQ-18 and AQ-24, Project operational emissions would exceed SCAQMD thresholds for emissions of VOC, NO$_X$, CO, PM$_{10}$, and PM$_{2.5}$. Detailed mitigated operational model outputs are presented in Appendix 5.3. As noted above, these calculations do not account for the emission reductions that would result from all of the remaining mitigation measures as they are not quantifiable in CalEEMod. Thus, these figures represent a very conservative estimate.

TABLE 5-9: SUMMARY OF PEAK OPERATIONAL EMISSIONS – WITH MITIGATION

Source	Emissions (lbs/day)					
	VOC	NO$_X$	CO	SO$_X$	PM$_{10}$	PM$_{2.5}$
Summer						
Mobile Source	174.00	308.00	2,148.00	6.90	577.00	151.00
Area Source	122.00	0	0	0	0	0
Energy Source	0	0	0	0	0	0
Operational Equipment	0.25	1.28	18.30	0.02	0.05	0.05
Stationary Source	18.70	5.50	47.70	0.09	0.28	0.28
TRU Source	34.56	36.27	4.17	0.00	1.18	1.09
Total Maximum Daily Emissions	**349.51**	**351.05**	**2,218.17**	**7.01**	**578.51**	**152.42**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**
Winter						
Mobile Source	166.00	328.00	1,762.00	6.52	577.00	151.00
Area Source	122.00	0	0	0	0	0
Energy Source	0	0	0	0	0	0
Operational Equipment	0.25	1.28	18.30	0.02	0.05	0.05
Stationary Source	18.70	5.50	47.70	0.09	0.28	0.28
TRU Source	34.56	36.27	4.17	0.00	1.18	1.09
Total Maximum Daily Emissions	**341.51**	**371.05**	**1,832.17**	**6.63**	**578.51**	**152.42**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**YES**	**NO**	**YES**	**YES**

5.5 CONSTRUCTION-SOURCE LOCALIZED EMISSIONS

The construction LST analysis includes on-site sources, including emissions from construction equipment as well as fugitive dust emissions. For analytical purposes, emissions associated with peak mass site grading and blasting & rock handling activities are considered for purposes of LSTs

since these phases represent the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in lesser emissions and consequently lesser impacts than what is disclosed herein. Outputs from the model runs for construction LSTs are provided in Appendix 5.1. AERMOD modeling outputs for construction are provided in Appendix 5.6.

SUMMARY OF CONSTRUCTION LTS IMPACTS

As shown in Table 5-10 (without mitigation) and Table 5-11 (with mitigation), localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criteria pollutant. Therefore, the Project will have a less than significant localized impact during construction activity.

TABLE 5-10: LOCALIZED SIGNIFICANCE SUMMARY – PEAK CONSTRUCTION (WITHOUT MITIGATION)

Peak Construction	CO		NO_x	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.04	0.01	3.38E-02	1.39	0.60
Background Concentration [A]	2.1	1.8	0.066		
Total Concentration	**2.14**	**1.81**	**0.10**	**1.39**	**0.60**
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.

Note: PM_{10} and $PM_{2.5}$ concentrations are expressed in µg/m³. All others are expressed in ppm

TABLE 5-11: LOCALIZED SIGNIFICANCE SUMMARY – PEAK CONSTRUCTION (WITH MITIGATION)

Peak Construction	CO[18]		NO_x	PM_{10}	$PM_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	0.06	0.02	3.91E-03	1.17	0.39
Background Concentration [A]	2.1	1.8	0.066		
Total Concentration	**2.16**	**1.82**	**0.07**	**1.17**	**0.39**
SCAQMD Localized Significance Threshold	20	9	0.18	10.4	10.4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.

Note: PM_{10} and $PM_{2.5}$ concentrations are expressed in µg/m³. All others are expressed in ppm

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[18] The use of Tier 4 construction equipment under the mitigated scenario would reduce NO_x, PM_{10}, and $PM_{2.5}$ emissions but result in a potential increase in CO emissions. This is attributable to some emission control technologies, such as exhaust gas recirculation, that reduce NOX emissions while increasing CO emissions. However, CO emissions under the mitigated scenario would remain below the applicable SCAQMD significance threshold.

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5.6   OPERATIONAL-SOURCE LOCALIZED EMISSIONS

The LST analysis generally includes on-site sources (area, energy, mobile – are previously discussed in Section 5.4 of this report). However, it should be noted that the CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. It should be noted that the longest on-site distance is approximately 2.0 miles. As such, a separate CalEEMod run for operational LSTs has been prepared which accounts for the 2.0-mile on-site travel distance. Outputs from the model run for operational LSTs are provided in Appendix 5.4. AERMOD modeling outputs for operation are provided in Appendix 5.7.

SUMMARY OF OPERATIONAL LST IMPACTS

As shown on Table 5-12 (without mitigation) and Table 5-13 (with mitigation), operational emissions would not exceed the applicable SCAQMD LSTs for emissions of any criteria pollutant. Therefore, the Project will have a less than significant localized impact during operational activity.

TABLE 5-12: LOCALIZED SIGNIFICANCE SUMMARY – OPERATION (WITHOUT MITIGATION)

Peak Operation	CO		NO$_X$	PM$_{10}$	PM$_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	4.56E-02	3.74E-02	7.34E-03	2.40	0.76
Background Concentration [A]	2.1	1.8	0.066		
Total Concentration	**2.15**	**1.84**	**0.07**	**2.40**	**0.76**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.

Note: PM$_{10}$ and PM$_{2.5}$ concentrations are expressed in µg/m³. All others are expressed in ppm

TABLE 5-13: LOCALIZED SIGNIFICANCE SUMMARY – OPERATION (WITH MITIGATION)

Peak Operation	CO		NO$_X$	PM$_{10}$	PM$_{2.5}$
	Averaging Time				
	1-Hour	8-Hour	1-Hour	24-Hours	24-Hours
Peak Day Localized Emissions	3.19E-02	2.62E-02	4.46E-03	2.26	0.63
Background Concentration [A]	2.1	1.8	0.066		
Total Concentration	**2.13**	**1.83**	**0.07**	**2.26**	**0.63**
SCAQMD Localized Significance Threshold	20	9	0.18	2.5	2.5
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**

[A] Highest concentration from the last three years of available data.

Note: PM$_{10}$ and PM$_{2.5}$ concentrations are expressed in µg/m³. All others are expressed in ppm

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5.7   CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hotspots." Further, detailed modeling of Project-specific CO "hotspots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the SCAQMD's *CEQA Air Quality Handbook (1993)* (*1993 CEQA Handbook*), the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (48). The determination of a potential CO hotspot is focused on the mobile-source vehicular activity that would occur at intersections in the Project-area. Aircraft-related emissions are not concentrated enough, in a particular location such that they would have a propensity to result in a CO hotspot and therefore aircraft emissions are not a consideration in determining CO hotspots.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 5-14.

TABLE 5-14: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7
Sunset Boulevard/Highland Avenue	4	4.5	3.5
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2
Long Beach Boulevard/Imperial Highway	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations
Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes

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and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (49). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 2.1 ppm and 1.8 ppm, respectively (data from Metropolitan Riverside County 1 station for 2021). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

The 2003 AQMP, as previously shown in Table 5-11, estimated that the 1-hour concentration for the Wilshire Boulevard and Veteran Avenue intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[19] The highest trips on a segment of road that the Project would generate is 87,515 vehicles per day on Meridian Parkway and Van Buren Boulevard (4).

Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 5-15. The busiest intersection evaluated for traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a traffic volume of approximately 8,674 vph (49). As shown on Table 5-16, the highest volume on a segment of road for the proposed Project is 8,669 vph on Alessandro Boulevard/Arlington Avenue and Chicago Avenue. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, the Project's impacts on CO "hot spots" would be less than significant.

TABLE 5-15: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

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[19] Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

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TABLE 5-16: OPENING YEAR CUMULATIVE (2028) WITH PROJECT TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Alessandro Blvd. & Arlington Ave/ Chicago Ave	3,940/2,637	1,101/2,636	1,375/2,172	1,575/1,711	7,991/9,155
Canyon Crest Dr. & Alessandro Blvd.	209/206	729/1,023	1,704/3,498	4,915/3,356	7,557/8,084
Trautwein Rd. & Alessandro Blvd.	2,345/1,439	0/0	1,587/2,457	3,855/2,795	7,788/6,692
Meridian Pkwy./Sycamore Canyon Blvd. & Alessandro Blvd.	1,531/1,373	463/1,104	1,884/2,906	3,388/2,865	7,266/8,248

5.8   AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what used to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the *Final 2022 AQMP* (*2022 AQMP*). The *2022 AQMP* continues to evaluate current integrated strategies and control measures to meet the CAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (23). Similar to the 2016 AQMP, the *2022 AQMP* incorporates scientific and technological information and planning assumptions, including the *2020-2045 RTP/SCS*, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (50). The Project's consistency with the AQMP will be determined using the *2022 AQMP* as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the *1993 CEQA Handbook* (51). These indicators are discussed below:

5.8.1 CONSISTENCY CRITERION NO. 1

The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds after implementation of MMs AQ-1 through AQ-4. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

The Project would not exceed the applicable LSTs for operational activity. However, the Project's operational-source emissions are anticipated to exceed the regional thresholds of significance for VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions. MMs AQ-5 through AQ-27 are designed to reduce Project operational-source VOCs, NO_X, CO, PM_{10}, and $PM_{2.5}$ emissions. However, even with the quantifiable emissions reductions associated with application of MMs AQ-5 through AQ-27, Project operational-source emissions impacts would be significant and unavoidable. As explained above, reductions were only quantified for MMs AQ-8, AQ-14, AQ-18 and AQ-24. The remaining mitigation measures would further reduce emissions but could not be quantified. Therefore actual operational emissions will be lower than those presented in this analysis. As such, the Project has the potential to result in a significant impact with respect to this criterion and the Project would have the potential to conflict with the AQMP according to this criterion.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the first criterion.

5.8.2 CONSISTENCY CRITERION NO. 2

The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The *2022 AQMP* demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by jurisdictions in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in the March JPA General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential

would likely occur, with disturbance of the entire site occurring during construction activities. Construction emissions are not relevant to the AQMP assumptions under this criterion.

Operational Impacts – Consistency Criterion 2

Under the current General Plan land use designations, 85% of the Project site is designated for development; under the Project, only 45% of the Project site is proposed for development, including 78 acres for the proposed Park and additional buffering open space. The March JPA General Plan (pp. 1-32 - 1-33) includes warehousing in the definition of Business Park uses. Moreover, wholesale, storage and distribution is expressly identified as an allowed use within the Business Park Zoning District, as identified in the March JPA Development Code (pp. 2-48). Thus, the Project designates more land for non-development uses, does not introduce new designated uses, and would not increase the growth projections for the March JPA General Plan utilized in the 2022 AQMP. (52)

Therefore, the Project would be consistent with the second criterion.

5.8.3 AQMP CONSISTENCY CONCLUSION

The Project has the potential to result in or cause NAAQS or CAAQS violations. Operational-source emissions would exceed the applicable SCAQMD regional thresholds for VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$. As such, the Project is considered to have the potential to conflict with the AQMP and a significant and unavoidable impact would occur with respect to this threshold.

5.9 RTP/SCS CONSISTENCY

Growth projections from local general plans adopted by jurisdictions in the district are provided to the SCAG, which develops regional growth forecasts. According to Connect SoCal (*SCAG's 2020-2045 RTP/SCS*), employment within Riverside County in 2019 is approximately 812,800 jobs with an anticipated increase to approximately 1,102,700 jobs by 2045, a growth of approximately 289,900 jobs (53). As discussed above in Section 5.8.2, the Project designates more land for non-development uses, does not introduce new designated uses, and would not increase the growth projections for the March JPA General Plan and therefore, would not result in long-term operational employment growth that exceeds planned growth projections in the RTP/SCS or the AQMP, or result in employment growth that would substantially add to traffic congestion. As such, the Project is consistent with the *2020-2045 RTP/SCS*.

5.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions on sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.

Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Results of the LST analysis indicate that the Project would not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO "hotspot." Additionally, the results of the *West Campus Upper Plateau Revised Health Risk Assessment* (44) indicate any health impacts to nearby sensitive receptors resulting from construction or operation of the proposed Project would be less than significant. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

5.11 ODORS

The potential for the Project to generate objectionable odors has also been considered. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction would be less than significant and no mitigation is required (54).

According to the SCAQMD, land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The proposed Project does not include any uses identified by the SCAQMD as being associated with emitting objectionable odors. As the proposed Project operational activities do not include these sources of odors, potential odor impacts would be less than significant.

5.12 CUMULATIVE IMPACTS

Air pollution by nature is largely a cumulative impact. The cumulative geographic context for air quality impacts is the South Coast Air Basin. The nonattainment status of regional pollutants is a result of past and present development, and the SCAQMD develops and implements plans for future attainment of ambient air quality standards. Appendix G of the CEQA Guidelines indicates that, where available, the significance criteria established by the applicable air quality

management district or air pollution control district may be relied upon to make the significance determinations. SCAQMD has developed regional significance thresholds for some regulated pollutants. As previously shown in Table 2-3, the CAAQS designate the SCAB as nonattainment for O_3, PM_{10}, and $PM_{2.5}$ while the NAAQS designates the SCAB as nonattainment for O_3 and $PM_{2.5}$.

SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicates that any projects in the South Coast Air Basin with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact. The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (55). In this report the SCAQMD clearly states (Page D-3):

> *…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Conversely, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would also cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would be considered to have a significant, adverse cumulative air quality impact.

CONSTRUCTION IMPACTS

As discussed herein, all construction-source criteria pollutant emissions impacts would be less-than-significant at the Project level, and would therefore per SCAQMD criteria, not be cumulatively significant.

OPERATIONAL-SOURCE EMISSIONS

The Project's disclosed emissions represent static worst-case opening year conditions. It is expected that actual vehicle emissions would be lower than emissions estimates, as future passenger vehicle and truck emissions standards further regulate new vehicle emissions. As a result of implementation of USEPA's Exhaust Emission Standards for Heavy-Duty Highway Compression Ignition Engines and Urban Buses and CARB's Truck and Bus Regulation, truck DPM emission factors have been reduced by 96% and NOx emission factors have been reduced by 87% between 2000 and 2023. Similarly, DPM emissions from TRUs have been reduced by 68% from 2000 to 2023, and with CARB's amendments to the TRU ATCM, emissions are expected to be reduced further by 81% between 2023 and 2040. The proposed Project has the potential to result in cumulative impacts associated with on-going operations for emissions of VOC, NO_X, CO, PM_{10}, and $PM_{2.5}$. Therefore, the proposed Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

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7   CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed West Campus Upper Plateau. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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Master of Science in Environmental Studies
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PROFESSIONAL AFFILIATIONS
AEP – Association of Environmental Professionals
AWMA – Air and Waste Management Association
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PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – CARB • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR
STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards
(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O₃)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO₂)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO₂)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page …

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1

2018
Area Designations for State
Ambient Air Quality Standards
OZONE

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN			X		Sutter Buttes	X			
LAKE TAHOE AIR BASIN			X		Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2

2018
Area Designations for State
Ambient Air Quality Standards
PM10

Legend:
- Unclassified
- Attainment
- Nonattainment
- Air Basin
- County
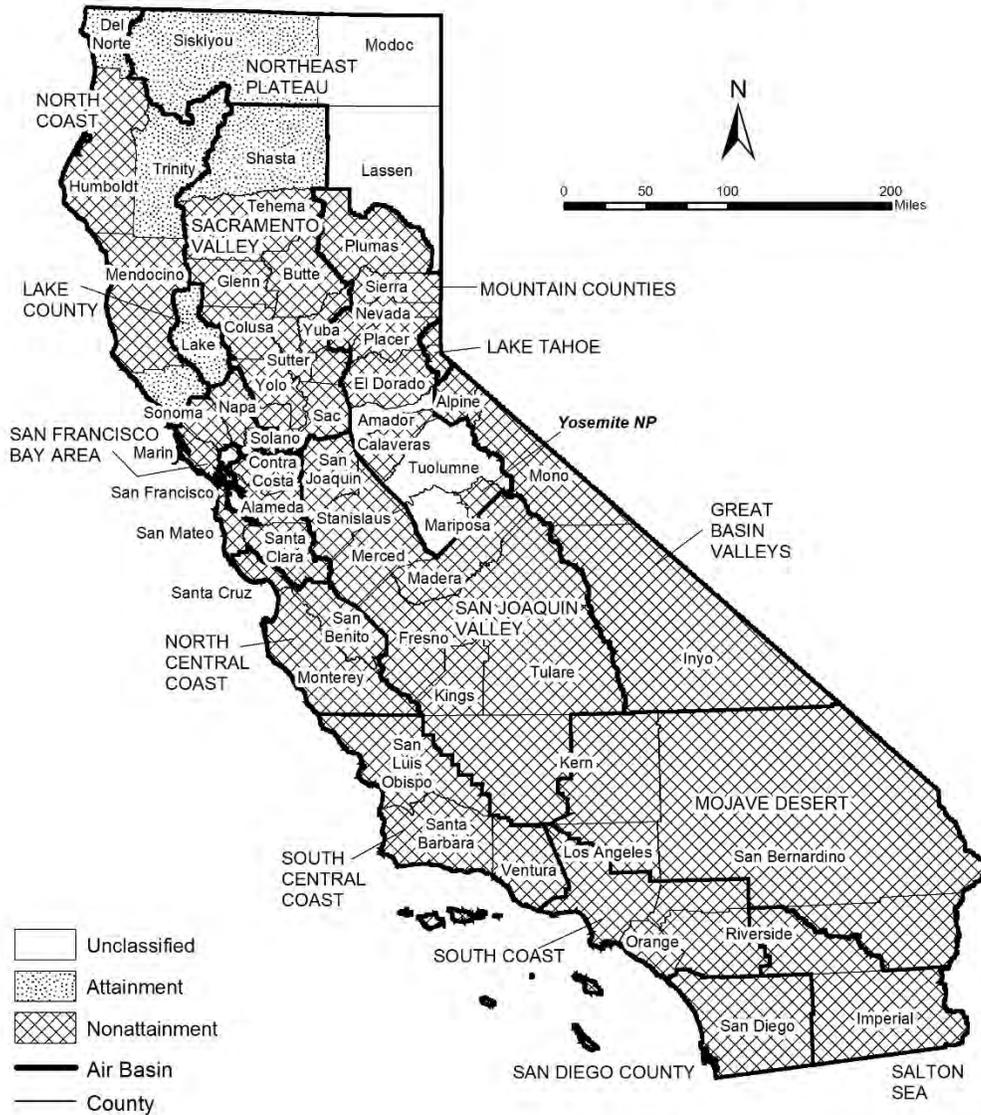
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

**California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3

2018
Area Designations for State
Ambient Air Quality Standards
PM2.5

Legend:
- Unclassified
- Attainment
- Nonattainment
- Air Basin
- County

Source Date:
October 2018
Air Quality Planning and Science Division
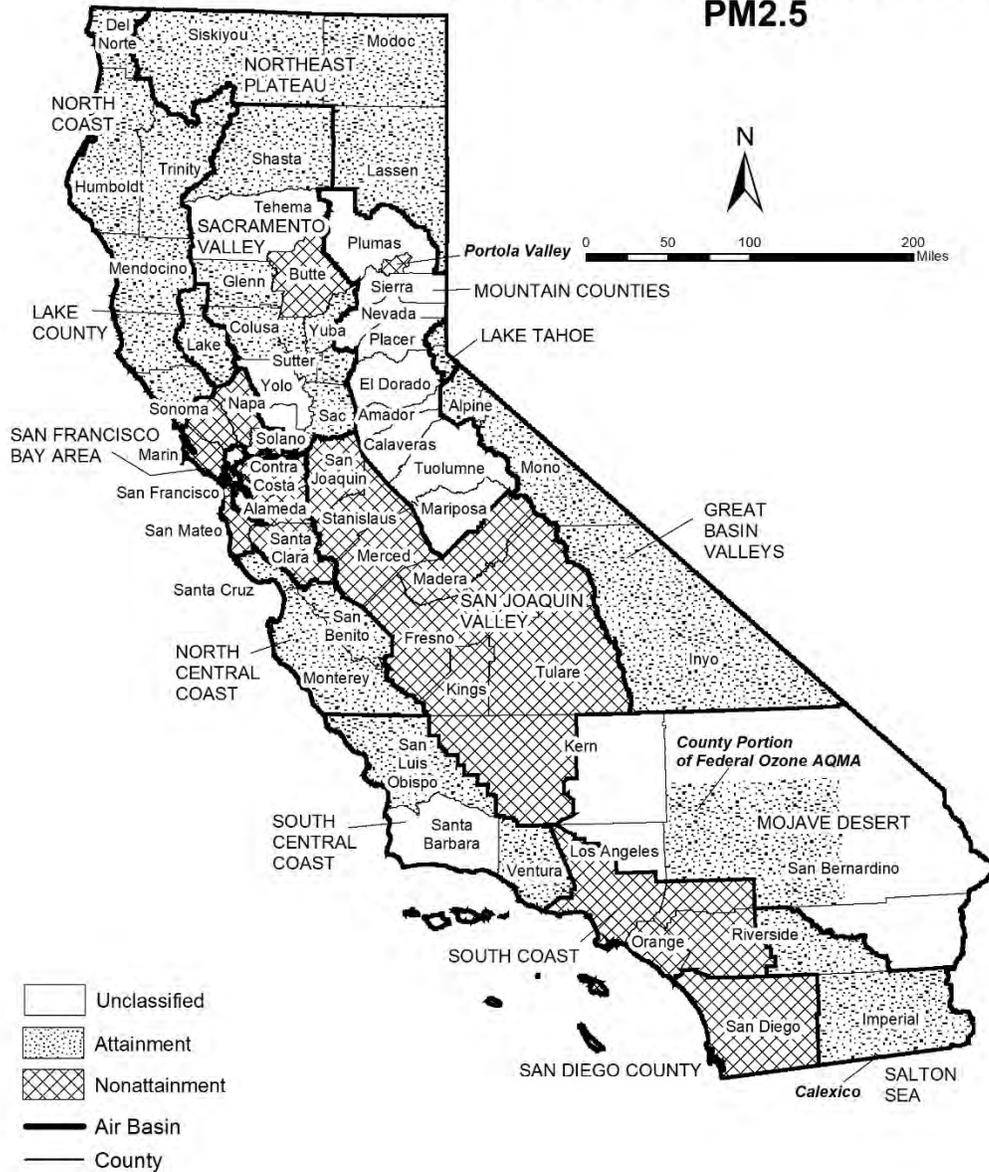
TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
Remainder of Air Basin		X		SAN JOAQUIN VALLEY AIR BASIN	X		
MOUNTAIN COUNTIES AIR BASIN				SOUTH CENTRAL COAST AIR BASIN			
Plumas County				San Luis Obispo County			X
- Portola Valley (2)	X			Santa Barbara County		X	
Remainder of Air Basin		X		Ventura County			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN	X		
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4

2018
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE

Legend:
- Unclassified
- Attainment
- Air Basin
- County

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5

2018
Area Designations for State
Ambient Air Quality Standards
NITROGEN DIOXIDE

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6

2018
Area Designations for State
Ambient Air Quality Standards
SULFUR DIOXIDE

C-16

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7

2018
Area Designations for State
Ambient Air Quality Standards
SULFATES

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8

2018
Area Designations for State
Ambient Air Quality Standards
LEAD

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 8

California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9

**2018
Area Designations for State
Ambient Air Quality Standards
HYDROGEN SULFIDE**

Legend:
- Unclassified
- Attainment
- Nonattainment
- Air Basin
- County

Source Date:
October 2018
Air Quality Planning and Science Division

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TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

FIGURE 10

2018
Area Designations for State
Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES

Legend:
- Unclassified
- Attainment
- Air Basin
- County
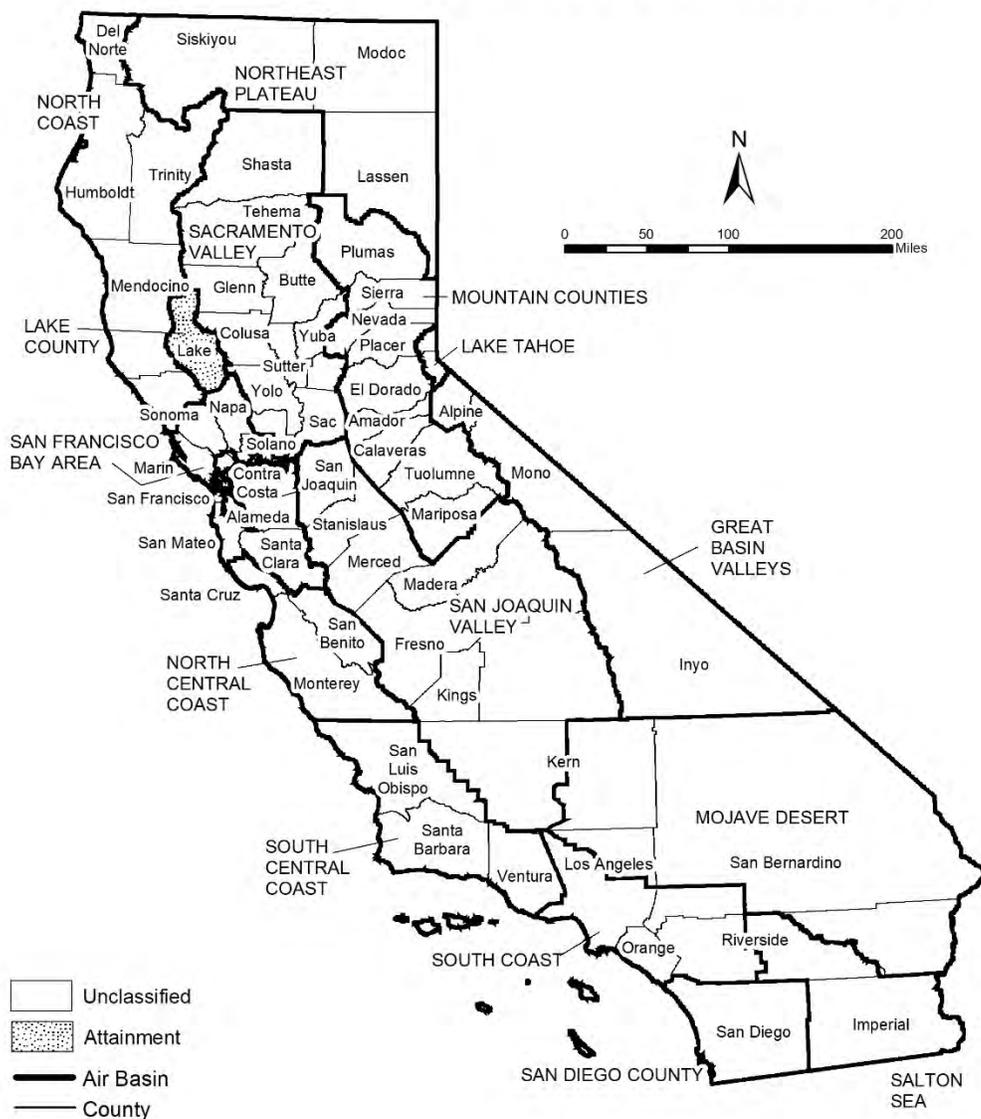
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM$_{10}$). The U.S. EPA uses three categories to designate areas with respect to PM$_{10}$:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter (PM$_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO$_2$). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM$_{2.5}$ standard of 12.0 μg/m^3. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m^3 as well as the 24-hour standard of 35 µg/m^3, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO$_2$ standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO$_2$ standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO$_2$). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO$_2$ standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

<u>Designation Areas</u>

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11

Area Designations for National Ambient Air Quality Standards 8-HOUR OZONE
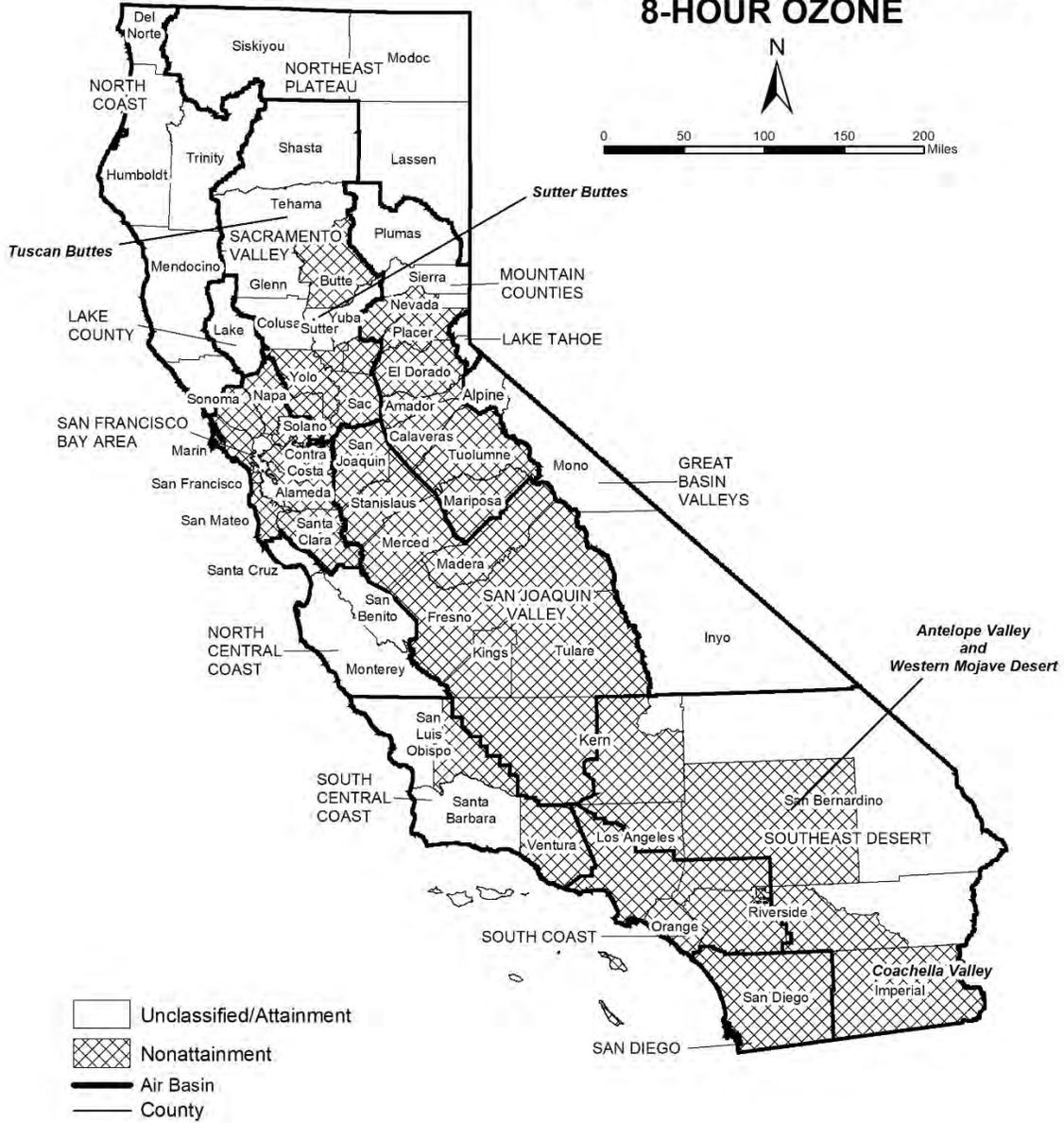
TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.
   South Coast Air Basin:
    Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

FIGURE 12

Area Designations for National Ambient Air Quality Standards PM10

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13

Area Designations for National Ambient Air Quality Standards PM2.5

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

(1) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(3) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(4) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14

Area Designations for National
Ambient Air Quality Standards
CARBON MONOXIDE

N

0   50   100   150   200
Miles

Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn   Butte   Sierra   MOUNTAIN COUNTIES
Colusa   Nevada
Lake   Sutter   Yuba   Placer   LAKE TAHOE
LAKE COUNTY
Yolo   El Dorado
Sonoma   Napa   Alpine
Sac   Amador
SAN FRANCISCO BAY AREA   Marin   Solano   Calaveras
Contra Costa   San Joaquin   Tuolumne   Mono   GREAT BASIN VALLEYS
San Francisco   Alameda
San Mateo   Santa Clara   Stanislaus   Mariposa
Merced
Santa Cruz   Madera
San Benito   Fresno   SAN JOAQUIN VALLEY
NORTH CENTRAL COAST   Inyo
Tulare
Monterey   Kings
San Luis Obispo   Kern
SOUTH CENTRAL COAST   Santa Barbara   SOUTHEAST DESERT
Ventura   Los Angeles   San Bernardino
Riverside
SOUTH COAST   Orange
San Diego   Imperial
SAN DIEGO COUNTY

☐ Unclassified/Attainment
▬ Air Basin
— County

Source Date:
October 2018
Air Quality Planning and Science Division

C-34

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15

Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE

Unclassified/Attainment
Air Basin
County

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16

Area Designations for National Ambient Air Quality Standards
SULFUR DIOXIDE

Source Date:
October 2018
Air Quality Planning and Science Division

C-38

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

(1) South Central Coast Air Basin Channel Islands:

   Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

   Ventura County includes Anacapa and San Nicolas Islands.
Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17

Area Designations for National
Ambient Air Quality Standards
LEAD

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

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APPENDIX 5.1:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

14064 West Campus Upper Plateau Construction Unmitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Construction Unmitigated
Construction Start Date	6/1/2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.90704595345207, -117.30995400292802
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.0	99.3	413	268	0.92	14.0	34.4	42.3	12.9	11.9	24.8	—	103,047	103,047	4.04	3.60	150	103,737
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	46.0	99.2	413	265	0.92	14.0	34.4	42.3	12.9	11.9	24.8	—	102,920	102,920	4.05	3.65	3.89	103,584
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.3	48.0	173	121	0.39	5.88	19.8	20.9	5.42	5.09	10.4	—	43,109	43,109	1.70	1.88	39.8	43,391
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.52	8.75	31.6	22.1	0.07	1.07	3.61	3.81	0.99	0.93	1.89	—	7,137	7,137	0.28	0.31	6.59	7,184

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	46.0	38.6	413	268	0.92	14.0	28.2	42.3	12.9	11.9	24.8	—	103,047	103,047	4.04	1.88	26.9	103,737
2024	20.8	17.5	176	194	0.39	6.23	27.9	29.6	5.73	6.66	10.6	—	44,749	44,749	1.74	2.63	139	45,714
2025	15.1	12.4	56.0	181	0.14	1.57	27.9	29.4	1.45	6.66	8.11	—	44,019	44,019	1.61	2.63	129	44,973
2026	16.4	97.1	64.3	205	0.19	1.62	34.4	36.0	1.51	8.24	9.75	—	54,565	54,565	1.98	3.60	150	55,836
2027	4.90	99.3	27.5	64.8	0.10	0.91	7.08	7.99	0.85	1.73	2.58	—	17,153	17,153	0.43	1.13	32.3	17,532
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	46.0	38.6	413	265	0.92	14.0	28.2	42.3	12.9	11.9	24.8	—	102,920	102,920	4.05	1.88	0.70	103,584
2024	45.4	38.1	394	260	0.92	13.4	28.2	41.6	12.3	11.9	24.2	—	102,805	102,805	4.05	2.64	3.62	103,469
2025	13.8	11.9	57.4	145	0.14	1.57	27.9	29.4	1.45	6.66	8.11	—	41,863	41,863	1.65	2.63	3.34	42,693
2026	15.8	96.5	66.0	166	0.19	1.62	34.4	36.0	1.51	8.24	9.75	—	52,043	52,043	1.10	3.65	3.89	53,161
2027	4.81	99.2	27.9	58.2	0.10	0.91	7.08	7.99	0.85	1.73	2.58	—	16,712	16,712	0.44	1.13	0.84	17,059
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	19.3	16.2	173	111	0.39	5.88	11.8	17.7	5.42	4.96	10.4	—	43,109	43,109	1.70	0.79	4.87	43,391
2024	15.8	13.5	108	121	0.25	3.57	17.0	20.6	3.29	5.09	8.38	—	38,491	38,491	1.52	1.41	26.4	38,975
2025	9.82	8.43	41.5	108	0.10	1.12	19.8	20.9	1.04	4.73	5.76	—	30,123	30,123	1.18	1.88	39.8	30,753
2026	8.18	31.8	34.5	88.9	0.10	0.86	17.5	18.4	0.80	4.20	5.00	—	26,646	26,646	0.56	1.79	32.8	27,225
2027	1.69	48.0	8.38	18.9	0.03	0.19	3.57	3.76	0.17	0.87	1.05	—	6,541	6,541	0.14	0.54	7.02	6,714
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	3.52	2.95	31.6	20.3	0.07	1.07	2.16	3.23	0.99	0.91	1.89	—	7,137	7,137	0.28	0.13	0.81	7,184
2024	2.89	2.47	19.8	22.1	0.05	0.65	3.10	3.75	0.60	0.93	1.53	—	6,373	6,373	0.25	0.23	4.37	6,453
2025	1.79	1.54	7.58	19.7	0.02	0.20	3.61	3.81	0.19	0.86	1.05	—	4,987	4,987	0.20	0.31	6.59	5,092
2026	1.49	5.81	6.29	16.2	0.02	0.16	3.20	3.36	0.15	0.77	0.91	—	4,411	4,411	0.09	0.30	5.43	4,507
2027	0.31	8.75	1.53	3.44	0.01	0.03	0.65	0.69	0.03	0.16	0.19	—	1,083	1,083	0.02	0.09	1.16	1,112

3. Construction Emissions Details

3.1. Ph1 Mass Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	37.5	31.5	339	214	0.69	11.9	—	11.9	11.0	—	11.0	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	37.5	31.5	339	214	0.69	11.9	—	11.9	11.0	—	11.0	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	15.7	13.2	142	89.7	0.29	4.99	—	4.99	4.59	—	4.59	—	31,335	31,335	1.27	0.25	—	31,443
Dust From Material Movement	—	—	—	—	—	—	8.27	8.27	—	3.50	3.50	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.87	2.41	25.9	16.4	0.05	0.91	—	0.91	0.84	—	0.84	—	5,188	5,188	0.21	0.04	—	5,206
Dust From Material Movement	—	—	—	—	—	—	1.51	1.51	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.44	7.48	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,212	1,212	0.05	0.04	5.20	1,231
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.42	0.51	5.67	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,114	1,114	0.05	0.04	0.13	1,127
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,583	3,583	0.08	0.53	0.26	3,744

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.49	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	472	472	0.02	0.02	0.94	479
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	78.2	78.2	< 0.005	< 0.005	0.16	79.3
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Ph1 Mass Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	36.9	31.0	322	210	0.69	11.3	—	11.3	10.4	—	10.4	—	74,812	74,812	3.03	0.61	—	75,069
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.69	3.94	40.9	26.7	0.09	1.44	—	1.44	1.32	—	1.32	—	9,516	9,516	0.39	0.08	—	9,549
Dust From Material Movement	—	—	—	—	—	—	2.51	2.51	—	1.06	1.06	—	—	—	—	Dust	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Off-Road Equipment	0.86	0.72	7.47	4.87	0.02	0.26	—	0.26	0.24	—	0.24	—	1,576	1,576	0.06	0.01	—	1,581
Dust From Material Movement	—	—	—	—	—	—	0.46	0.46	—	0.19	0.19	—	—	—	—	Dust	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Offsite	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.47	5.21	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,091	1,091	0.05	0.04	0.12	1,105
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	0.01	0.01	0.26	143
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.04	23.6
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Ph1 Blasting (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.53	6.33	64.7	40.8	0.18	2.03	—	2.03	1.87	—	1.87	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.53	6.33	64.7	40.8	0.18	2.03	—	2.03	1.87	—	1.87	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.15	2.65	27.1	17.1	0.08	0.85	—	0.85	0.78	—	0.78	—	8,144	8,144	0.33	0.07	—	8,172
Dust From Material Movement	—	—	—	—	—	—	2.14	2.14	—	1.10	1.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.48	4.94	3.12	0.01	0.16	—	0.16	0.14	—	0.14	—	1,348	1,348	0.05	0.01	—	1,353
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.15	2.49	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	404	404	0.02	0.01	1.73	410
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.17	1.89	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	371	371	0.02	0.01	0.04	376
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	157	157	0.01	0.01	0.31	160

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.05	26.4
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Ph1 Blasting (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.61	6.39	63.2	40.8	0.18	1.99	—	1.99	1.83	—	1.83	—	19,454	19,454	0.79	0.16	—	19,521
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	8.04	5.19	0.02	0.25	—	0.25	0.23	—	0.23	—	2,475	2,475	0.10	0.02	—	2,483

Dust From Material Movement	—	—	—	—	—	—	0.65	0.65	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.47	0.95	< 0.005	0.05	—	0.05	0.04	—	0.04	—	410	410	0.02	< 0.005	—	411
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.16	1.74	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	364	364	0.02	0.01	0.04	368
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.9	46.9	< 0.005	< 0.005	0.09	47.5
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.76	7.76	< 0.005	< 0.005	0.01	7.87
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.6	74.6	< 0.005	0.01	0.09	78.0

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Ph2 Remedial Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	20.5	17.2	175	117	0.38	6.21	—	6.21	5.71	—	5.71	—	41,586	41,586	1.69	0.34	—	41,729
Dust From Material Movement	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	20.5	17.2	175	117	0.38	6.21	—	6.21	5.71	—	5.71	—	41,586	41,586	1.69	0.34	—	41,729
Dust From Material Movement	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.76	3.16	32.1	21.5	0.07	1.14	—	1.14	1.05	—	1.05	—	7,634	7,634	0.31	0.06	—	7,660

Dust From Material Movement	—	—	—	—	—	—	1.97	1.97	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	5.85	3.93	0.01	0.21	—	0.21	0.19	—	0.19	—	1,264	1,264	0.05	0.01	—	1,268
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.15	0.15	—	—	—	—	Dust From Material Movement	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Offsite	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Summer (Max)	—	—
Worker	0.27	0.24	0.23	3.97	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	684	684	0.03	0.02	2.71	694
Vendor	0.05	0.03	1.34	0.42	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,180	1,180	0.03	0.18	3.32	1,236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Winter (Max)	—	—
Worker	0.25	0.23	0.27	3.00	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	628	628	0.03	0.02	0.07	636
Vendor	0.05	0.03	1.40	0.43	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,181	1,181	0.03	0.18	0.09	1,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Average Daily	—	—
Worker	0.05	0.04	0.05	0.58	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	117	117	0.01	< 0.005	0.22	118
Vendor	0.01	0.01	0.26	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	< 0.005	0.03	0.26	227
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.3	19.3	< 0.005	< 0.005	0.04	19.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.04	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Ph2 Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.76	3.98	39.6	31.2	0.07	1.62	—	1.62	1.49	—	1.49	—	6,445	6,445	0.26	0.05	—	6,467
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.76	3.98	39.6	31.2	0.07	1.62	—	1.62	1.49	—	1.49	—	6,445	6,445	0.26	0.05	—	6,467
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.62	16.1	12.7	0.03	0.66	—	0.66	0.61	—	0.61	—	2,623	2,623	0.11	0.02	—	2,632
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.30	2.94	2.32	< 0.005	0.12	—	0.12	0.11	—	0.11	—	434	434	0.02	< 0.005	—	436

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.7	9.75	9.18	159	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	27,376	27,376	1.15	0.94	109	27,794
Vendor	0.49	0.32	12.4	3.85	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,929	10,929	0.24	1.64	30.8	11,453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.1	9.16	10.8	120	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	25,159	25,159	1.20	0.94	2.82	25,473
Vendor	0.47	0.31	13.0	3.94	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,936	10,936	0.24	1.65	0.80	11,433
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.11	3.71	4.40	51.4	0.00	0.00	10.1	10.1	0.00	2.36	2.36	—	10,372	10,372	0.49	0.38	19.1	10,517
Vendor	0.19	0.13	5.27	1.59	0.03	0.06	1.22	1.28	0.06	0.34	0.40	—	4,450	4,450	0.10	0.67	5.39	4,656
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.68	0.80	9.39	0.00	0.00	1.83	1.83	0.00	0.43	0.43	—	1,717	1,717	0.08	0.06	3.16	1,741
Vendor	0.04	0.02	0.96	0.29	0.01	0.01	0.22	0.23	0.01	0.06	0.07	—	737	737	0.02	0.11	0.89	771
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Ph2 Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.36	3.64	35.8	30.4	0.07	1.41	—	1.41	1.30	—	1.30	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.36	3.64	35.8	30.4	0.07	1.41	—	1.41	1.30	—	1.30	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.11	2.60	25.6	21.7	0.05	1.01	—	1.01	0.93	—	0.93	—	4,603	4,603	0.19	0.04	—	4,619
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	4.67	3.96	0.01	0.18	—	0.18	0.17	—	0.17	—	762	762	0.03	0.01	—	765
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.2	8.51	8.32	147	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	26,806	26,806	1.11	0.94	98.5	27,214
Vendor	0.49	0.23	11.8	3.68	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,769	10,769	0.24	1.64	30.6	11,294
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.99	8.01	9.18	111	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	24,643	24,643	1.15	0.94	2.55	24,955
Vendor	0.47	0.22	12.4	3.78	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,777	10,777	0.24	1.64	0.79	11,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.36	5.66	7.11	83.8	0.00	0.00	17.6	17.6	0.00	4.13	4.13	—	17,826	17,826	0.82	0.67	30.3	18,078
Vendor	0.34	0.17	8.83	2.66	0.06	0.11	2.14	2.25	0.11	0.59	0.70	—	7,695	7,695	0.17	1.17	9.46	8,057
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.03	1.30	15.3	0.00	0.00	3.22	3.22	0.00	0.75	0.75	—	2,951	2,951	0.14	0.11	5.02	2,993
Vendor	0.06	0.03	1.61	0.49	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,274	1,274	0.03	0.19	1.57	1,334
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Ph2 Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.08	3.41	33.5	29.9	0.07	1.25	—	1.25	1.15	—	1.15	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.08	3.41	33.5	29.9	0.07	1.25	—	1.25	1.15	—	1.15	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.30	1.92	18.9	16.9	0.04	0.71	—	0.71	0.65	—	0.65	—	3,632	3,632	0.15	0.03	—	3,644
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.45	3.08	0.01	0.13	—	0.13	0.12	—	0.12	—	601	601	0.02	< 0.005	—	603
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.95	8.05	7.46	137	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	26,231	26,231	1.11	0.90	88.9	26,616
Vendor	0.49	0.23	11.3	3.51	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,596	10,596	0.24	1.64	29.0	11,119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.53	7.59	8.32	104	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	24,120	24,120	0.38	0.94	2.31	24,412
Vendor	0.47	0.21	11.8	3.60	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,604	10,604	0.24	1.64	0.75	11,098
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.79	4.25	5.13	61.1	0.00	0.00	13.9	13.9	0.00	3.26	3.26	—	13,766	13,766	0.21	0.53	21.6	13,952
Vendor	0.27	0.12	6.68	2.00	0.04	0.09	1.69	1.78	0.09	0.47	0.56	—	5,974	5,974	0.13	0.92	7.02	6,259

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.78	0.94	11.1	0.00	0.00	2.54	2.54	0.00	0.60	0.60	—	2,279	2,279	0.04	0.09	3.58	2,310
Vendor	0.05	0.02	1.22	0.37	0.01	0.02	0.31	0.32	0.02	0.09	0.10	—	989	989	0.02	0.15	1.16	1,036
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Ph2 Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	15.2	29.2	0.05	0.72	—	0.72	0.66	—	0.66	—	4,937	4,937	0.20	0.04	—	4,954
Paving	—	12.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	15.2	29.2	0.05	0.72	—	0.72	0.66	—	0.66	—	4,937	4,937	0.20	0.04	—	4,954
Paving	—	12.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.75	3.37	0.01	0.08	—	0.08	0.08	—	0.08	—	568	568	0.02	< 0.005	—	570
Paving	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.32	0.61	< 0.005	0.02	—	0.02	0.01	—	0.01	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.99	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	709	709	0.02	0.11	1.81	743
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	0.01	0.01	0.03	378
Vendor	0.03	0.01	0.78	0.24	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	710	710	0.02	0.11	0.05	742
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	43.5	43.5	< 0.005	< 0.005	0.06	44.1
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	81.6	81.6	< 0.005	0.01	0.09	85.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.20	7.20	< 0.005	< 0.005	0.01	7.30
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Ph2 Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.68	4.81	6.37	0.01	0.13	—	0.13	0.12	—	0.12	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	83.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.68	4.81	6.37	0.01	0.13	—	0.13	0.12	—	0.12	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	83.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.20	1.44	1.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	225	225	0.01	< 0.005	—	225
Architectural Coatings	—	24.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.26	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Architectural Coatings	—	4.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.79	1.61	1.49	27.3	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	5,246	5,246	0.22	0.18	17.8	5,323
Vendor	0.24	0.11	5.66	1.75	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,298	5,298	0.12	0.82	14.5	5,559
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.52	1.66	20.7	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	4,824	4,824	0.08	0.19	0.46	4,882
Vendor	0.24	0.11	5.90	1.80	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,302	5,302	0.12	0.82	0.38	5,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.45	0.54	6.49	0.00	0.00	1.48	1.48	0.00	0.35	0.35	—	1,463	1,463	0.02	0.06	2.30	1,482
Vendor	0.07	0.03	1.78	0.53	0.01	0.02	0.45	0.47	0.02	0.12	0.15	—	1,587	1,587	0.04	0.25	1.86	1,663
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.18	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	242	242	< 0.005	0.01	0.38	245
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	263	263	0.01	0.04	0.31	275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Ph2 Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.64	4.67	6.33	0.01	0.11	—	0.11	0.10	—	0.10	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	83.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.64	4.67	6.33	0.01	0.11	—	0.11	0.10	—	0.10	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	83.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	2.54	3.44	0.01	0.06	—	0.06	0.05	—	0.05	—	408	408	0.02	< 0.005	—	410
Architectural Coatings	—	45.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.46	0.63	< 0.005	0.01	—	0.01	0.01	—	0.01	—	67.6	67.6	< 0.005	< 0.005	—	67.8
Architectural Coatings	—	8.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.72	1.53	1.32	25.3	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	5,149	5,149	0.06	0.18	16.0	5,220
Vendor	0.24	0.11	5.44	1.71	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,201	5,201	0.12	0.78	13.2	5,450
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.63	1.44	1.49	19.1	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	4,736	4,736	0.07	0.18	0.41	4,791
Vendor	0.23	0.10	5.68	1.76	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,205	5,205	0.12	0.78	0.34	5,440
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.78	0.90	10.9	0.00	0.00	2.69	2.69	0.00	0.63	0.63	—	2,609	2,609	0.04	0.10	3.75	2,643
Vendor	0.13	0.06	3.09	0.94	0.02	0.04	0.81	0.86	0.04	0.23	0.27	—	2,830	2,830	0.07	0.42	3.11	2,962
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.16	1.99	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	432	432	0.01	0.02	0.62	438
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	469	469	0.01	0.07	0.51	490
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Ph1 Mass Grading	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph1 Blasting	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph2 Remedial Grading	Grading	3/6/2024	6/6/2024	5.00	67.0	—
Ph2 Building Construction	Building Construction	6/7/2024	10/15/2026	5.00	615	—
Ph2 Paving	Paving	8/9/2027	10/5/2027	5.00	42.0	—
Ph2 Architectural Coating	Architectural Coating	8/1/2026	10/5/2027	5.00	307	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Average	8.00	8.00	670	0.40

Ph1 Mass Grading	Tractors/Loaders/Backh	Diesel	Average	1.00	8.00	425	0.37
Ph1 Mass Grading	Excavators	Diesel	Average	4.00	8.00	400	0.38
Ph1 Mass Grading	Scrapers	Diesel	Average	16.0	8.00	570	0.48
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	425	0.40
Ph1 Mass Grading	Off-Highway Trucks	Diesel	Average	3.00	8.00	500	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Average	2.00	8.00	670	0.40
Ph1 Blasting	Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	400	0.37
Ph1 Blasting	Off-Highway Trucks	Diesel	Average	3.00	8.00	425	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Average	1.00	8.00	600	0.40
Ph1 Blasting	Bore/Drill Rigs	Diesel	Average	3.00	8.00	360	0.50
Ph2 Remedial Grading	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	425	0.37
Ph2 Remedial Grading	Excavators	Diesel	Average	2.00	8.00	400	0.38
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Average	4.00	8.00	670	0.40
Ph2 Remedial Grading	Scrapers	Diesel	Average	8.00	8.00	570	0.48
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	425	0.40
Ph2 Remedial Grading	Off-Highway Trucks	Diesel	Average	3.00	8.00	500	0.38
Ph2 Building Construction	Cranes	Diesel	Average	2.00	8.00	231	0.29
Ph2 Building Construction	Forklifts	Diesel	Average	6.00	8.00	89.0	0.20
Ph2 Building Construction	Generator Sets	Diesel	Average	2.00	8.00	84.0	0.74
Ph2 Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Ph2 Building Construction	Crawler Tractors	Diesel	Average	3.00	8.00	212	0.43
Ph2 Paving	Pavers	Diesel	Average	4.00	8.00	130	0.42
Ph2 Paving	Paving Equipment	Diesel	Average	4.00	8.00	132	0.36

| Ph2 Paving | Rollers | Diesel | Average | 4.00 | 8.00 | 80.0 | 0.38 |
| Ph2 Architectural Coating | Air Compressors | Diesel | Average | 2.00 | 8.00 | 78.0 | 0.48 |

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Ph1 Mass Grading	—	—	—	—
Ph1 Mass Grading	Worker	82.5	18.5	LDA,LDT1,LDT2
Ph1 Mass Grading	Vendor	114	10.2	HHDT,MHDT
Ph1 Mass Grading	Hauling	0.00	20.0	HHDT
Ph1 Mass Grading	Onsite truck	—	—	HHDT
Ph1 Blasting	—	—	—	—
Ph1 Blasting	Worker	27.5	18.5	LDA,LDT1,LDT2
Ph1 Blasting	Vendor	114	10.2	HHDT,MHDT
Ph1 Blasting	Hauling	0.00	20.0	HHDT
Ph1 Blasting	Onsite truck	—	—	HHDT
Ph2 Remedial Grading	—	—	—	—
Ph2 Remedial Grading	Worker	47.5	18.5	LDA,LDT1,LDT2
Ph2 Remedial Grading	Vendor	38.0	10.2	HHDT,MHDT
Ph2 Remedial Grading	Hauling	0.00	20.0	HHDT
Ph2 Remedial Grading	Onsite truck	—	—	HHDT
Ph2 Building Construction	—	—	—	—
Ph2 Building Construction	Worker	1,902	18.5	LDA,LDT1,LDT2
Ph2 Building Construction	Vendor	352	10.2	HHDT,MHDT
Ph2 Building Construction	Hauling	0.00	20.0	HHDT
Ph2 Building Construction	Onsite truck	—	—	HHDT

Ph2 Architectural Coating	—	—	—	—
Ph2 Architectural Coating	Worker	380	18.5	LDA,LDT1,LDT2
Ph2 Architectural Coating	Vendor	176	10.2	HHDT,MHDT
Ph2 Architectural Coating	Hauling	0.00	20.0	HHDT
Ph2 Architectural Coating	Onsite truck	—	—	HHDT
Ph2 Paving	—	—	—	—
Ph2 Paving	Worker	30.0	18.5	LDA,LDT1,LDT2
Ph2 Paving	Vendor	24.0	10.2	HHDT,MHDT
Ph2 Paving	Hauling	0.00	20.0	HHDT
Ph2 Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Ph2 Architectural Coating	0.00	0.00	7,479,975	2,493,325	509,160

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Ph1 Mass Grading	—	—	3,980	0.00	—
Ph1 Blasting	—	—	3,980	0.00	—
Ph2 Remedial Grading	—	—	3,980	0.00	—

| Ph2 Paving | 0.00 | 0.00 | 0.00 | 0.00 | 195 |

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Office Park	0.00	0%
Regional Shopping Center	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%
City Park	0.00	0%
Other Asphalt Surfaces	195	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3
Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9

Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00
Solid Waste	84.9
Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3
Unemployment	81.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712
Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705

Active commuting	87.46310792
Social	—
2-parent households	6.223533941
Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712
Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7
Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4

Cognitively Disabled	15.9
Physically Disabled	19.5
Heart Attack ER Admissions	20.1
Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9
Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9

Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	5.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan
Construction: Construction Phases	Construction schedule based on data provided by the Project team
Construction: Off-Road Equipment	Construction equipment based on data provided by the Project team
Construction: Dust From Material Movement	Total acres grading based on equipment list

Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for each phase.
Construction: Architectural Coatings	Per SCAQMD Rule 1113

14064 West Campus Upper Plateau Construction Mitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Construction Mitigated
Construction Start Date	6/1/2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.90704595345207, -117.30995400292802
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.2	33.4	55.4	477	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	103,047	103,047	4.04	3.60	150	103,737
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.6	33.3	55.9	474	0.92	1.89	34.4	34.7	1.89	11.9	13.7	—	102,920	102,920	4.05	3.65	3.89	103,584
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.16	12.6	23.4	199	0.39	0.79	19.8	20.0	0.79	5.09	5.75	—	43,109	43,109	1.70	1.88	39.8	43,391
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	1.31	2.31	4.27	36.3	0.07	0.14	3.61	3.65	0.14	0.93	1.05	—	7,137	7,137	0.28	0.31	6.59	7,184

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.94	9.73	55.4	477	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	103,047	103,047	4.04	1.88	26.9	103,737
2024	11.8	10.7	26.5	209	0.39	0.80	27.9	28.2	0.80	6.66	6.94	—	44,749	44,749	1.74	2.63	139	45,714
2025	11.3	9.38	25.1	187	0.14	0.28	27.9	28.2	0.28	6.66	6.94	—	44,019	44,019	1.61	2.63	129	44,973
2026	12.2	29.6	31.2	211	0.19	0.37	34.4	34.7	0.37	8.24	8.61	—	54,565	54,565	1.98	3.60	150	55,836
2027	2.65	33.4	10.4	68.7	0.10	0.20	7.08	7.27	0.20	1.73	1.93	—	17,153	17,153	0.43	1.13	32.3	17,532
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	9.90	9.68	55.9	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,920	102,920	4.05	1.88	0.70	103,584
2024	11.2	10.1	55.4	474	0.92	1.89	28.2	30.1	1.89	11.9	13.7	—	102,805	102,805	4.05	2.64	3.62	103,469
2025	10.1	8.86	26.5	152	0.14	0.28	27.9	28.2	0.28	6.66	6.94	—	41,863	41,863	1.65	2.63	3.34	42,693
2026	11.6	29.0	33.0	171	0.19	0.37	34.4	34.7	0.37	8.24	8.61	—	52,043	52,043	1.10	3.65	3.89	53,161
2027	2.56	33.3	10.8	62.1	0.10	0.20	7.08	7.27	0.20	1.73	1.93	—	16,712	16,712	0.44	1.13	0.84	17,059
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	4.15	4.05	23.4	199	0.39	0.79	11.8	12.6	0.79	4.96	5.75	—	43,109	43,109	1.70	0.79	4.87	43,391
2024	6.59	6.09	22.8	167	0.25	0.50	17.0	17.5	0.50	5.09	5.59	—	38,491	38,491	1.52	1.41	26.4	38,975
2025	7.16	6.28	19.5	113	0.10	0.20	19.8	20.0	0.20	4.73	4.92	—	30,123	30,123	1.18	1.88	39.8	30,753
2026	6.00	10.9	17.0	92.3	0.10	0.18	17.5	17.7	0.18	4.20	4.38	—	26,646	26,646	0.56	1.79	32.8	27,225
2027	1.12	12.6	4.55	18.7	0.03	0.06	3.57	3.63	0.06	0.87	0.93	—	6,541	6,541	0.14	0.54	7.02	6,714
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	0.76	0.74	4.27	36.3	0.07	0.14	2.16	2.30	0.14	0.91	1.05	—	7,137	7,137	0.28	0.13	0.81	7,184
2024	1.20	1.11	4.16	30.4	0.05	0.09	3.10	3.19	0.09	0.93	1.02	—	6,373	6,373	0.25	0.23	4.37	6,453
2025	1.31	1.15	3.55	20.6	0.02	0.04	3.61	3.65	0.04	0.86	0.90	—	4,987	4,987	0.20	0.31	6.59	5,092
2026	1.10	1.99	3.11	16.8	0.02	0.03	3.20	3.23	0.03	0.77	0.80	—	4,411	4,411	0.09	0.30	5.43	4,507
2027	0.21	2.31	0.83	3.41	0.01	0.01	0.65	0.66	0.01	0.16	0.17	—	1,083	1,083	0.02	0.09	1.16	1,112

3. Construction Emissions Details

3.1. Ph1 Mass Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,824	74,824	3.04	0.61	—	75,081
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.96	2.96	15.4	154	0.29	0.59	—	0.59	0.59	—	0.59	—	31,335	31,335	1.27	0.25	—	31,443
Dust From Material Movement	—	—	—	—	—	—	8.27	8.27	—	3.50	3.50	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.54	2.81	28.1	0.05	0.11	—	0.11	0.11	—	0.11	—	5,188	5,188	0.21	0.04	—	5,206
Dust From Material Movement	—	—	—	—	—	—	1.51	1.51	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.44	0.44	7.48	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,212	1,212	0.05	0.04	5.20	1,231
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.42	0.51	5.67	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,114	1,114	0.05	0.04	0.13	1,127
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,583	3,583	0.08	0.53	0.26	3,744

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.49	0.00	0.00	0.45	0.45	0.00	0.11	0.11	—	472	472	0.02	0.02	0.94	479
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.04	0.45	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	78.2	78.2	< 0.005	< 0.005	0.16	79.3
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Ph1 Mass Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	7.08	7.08	36.8	368	0.69	1.42	—	1.42	1.42	—	1.42	—	74,812	74,812	3.03	0.61	—	75,069
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	8.36	8.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.90	0.90	4.68	46.8	0.09	0.18	—	0.18	0.18	—	0.18	—	9,516	9,516	0.39	0.08	—	9,549
Dust From Material Movement	—	—	—	—	—	—	2.51	2.51	—	1.06	1.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	0.85	8.54	0.02	0.03	—	0.03	0.03	—	0.03	—	1,576	1,576	0.06	0.01	—	1,581
Dust From Material Movement	—	—	—	—	—	—	0.46	0.46	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.40	0.47	5.21	0.00	0.00	1.08	1.08	0.00	0.25	0.25	—	1,091	1,091	0.05	0.04	0.12	1,105
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	141	141	0.01	0.01	0.26	143
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.3	23.3	< 0.005	< 0.005	0.04	23.6
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.6	74.6	< 0.005	0.01	0.09	78.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Ph1 Blasting (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,446	19,446	0.79	0.16	—	19,512
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.77	0.77	4.03	40.3	0.08	0.15	—	0.15	0.15	—	0.15	—	8,144	8,144	0.33	0.07	—	8,172
Dust From Material Movement	—	—	—	—	—	—	2.14	2.14	—	1.10	1.10	—	—	—	—	Dust	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Off-Road Equipment	0.14	0.14	0.73	7.35	0.01	0.03	—	0.03	0.03	—	0.03	—	1,348	1,348	0.05	0.01	—	1,353
Dust From Material Movement	—	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	Dust	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Offsite	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily,	—	—
Worker	0.16	0.15	0.15	2.49	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	404	404	0.02	0.01	1.73	410
Vendor	0.19	0.11	4.18	1.30	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,581	3,581	0.08	0.53	9.97	3,751
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily,	—	—
Worker	0.15	0.14	0.17	1.89	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	371	371	0.02	0.01	0.04	376
Vendor	0.18	0.10	4.38	1.34	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,583	3,583	0.08	0.53	0.26	3,744
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.83	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	157	157	0.01	0.01	0.31	160

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.08	0.04	1.84	0.55	0.01	0.02	0.41	0.43	0.02	0.11	0.13	—	1,500	1,500	0.03	0.22	1.81	1,569
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.05	26.4
Vendor	0.01	0.01	0.34	0.10	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	248	248	0.01	0.04	0.30	260
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Ph1 Blasting (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.85	1.85	9.61	96.1	0.18	0.37	—	0.37	0.37	—	0.37	—	19,454	19,454	0.79	0.16	—	19,521
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	1.22	12.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,475	2,475	0.10	0.02	—	2,483

Dust From Material Movement	—	—	—	—	—	—	0.65	0.65	—	0.33	0.33	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.22	2.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	410	410	0.02	< 0.005	—	411
Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.16	1.74	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	364	364	0.02	0.01	0.04	368
Vendor	0.15	0.10	4.20	1.28	0.03	0.05	0.98	1.03	0.05	0.27	0.32	—	3,542	3,542	0.08	0.53	0.26	3,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	46.9	46.9	< 0.005	< 0.005	0.09	47.5
Vendor	0.02	0.01	0.53	0.16	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	450	450	0.01	0.07	0.55	471
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.76	7.76	< 0.005	< 0.005	0.01	7.87
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.6	74.6	< 0.005	0.01	0.09	78.0

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Ph2 Remedial Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.93	3.93	20.5	205	0.38	0.79	—	0.79	0.79	—	0.79	—	41,586	41,586	1.69	0.34	—	41,729
Dust From Material Movement	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.93	3.93	20.5	205	0.38	0.79	—	0.79	0.79	—	0.79	—	41,586	41,586	1.69	0.34	—	41,729
Dust From Material Movement	—	—	—	—	—	—	10.7	10.7	—	4.62	4.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.72	3.76	37.6	0.07	0.14	—	0.14	0.14	—	0.14	—	7,634	7,634	0.31	0.06	—	7,660

Dust From Material Movement	—	—	—	—	—	—	1.97	1.97	—	0.85	0.85	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.69	6.85	0.01	0.03	—	0.03	0.03	—	0.03	—	1,264	1,264	0.05	0.01	—	1,268
Dust From Material Movement	—	—	—	—	—	—	0.36	0.36	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.24	0.23	3.97	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	684	684	0.03	0.02	2.71	694
Vendor	0.05	0.03	1.34	0.42	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,180	1,180	0.03	0.18	3.32	1,236
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.27	3.00	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	628	628	0.03	0.02	0.07	636
Vendor	0.05	0.03	1.40	0.43	0.01	0.02	0.33	0.34	0.02	0.09	0.11	—	1,181	1,181	0.03	0.18	0.09	1,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.58	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	117	117	0.01	< 0.005	0.22	118
Vendor	0.01	0.01	0.26	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	217	217	< 0.005	0.03	0.26	227
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.3	19.3	< 0.005	< 0.005	0.04	19.6
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.9	35.9	< 0.005	0.01	0.04	37.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Ph2 Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,445	6,445	0.26	0.05	—	6,467
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,445	6,445	0.26	0.05	—	6,467
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.26	2.01	15.0	0.03	0.05	—	0.05	0.05	—	0.05	—	2,623	2,623	0.11	0.02	—	2,632
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.37	2.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	434	434	0.02	< 0.005	—	436

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.000	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.000	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.45	3.53	26.3	0.05	0.09	—	0.09	0.09	—	0.09	—	4,603	4,603	0.19	0.04	—	4,619
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.000	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.64	4.79	0.01	0.02	—	0.02	0.02	—	0.02	—	762	762	0.03	0.01	—	765
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.000	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	10.2	8.51	8.32	147	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	26,806	26,806	1.11	0.94	98.5	27,214
Vendor	0.49	0.23	11.8	3.68	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,769	10,769	0.24	1.64	30.6	11,294
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.99	8.01	9.18	111	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	24,643	24,643	1.15	0.94	2.55	24,955
Vendor	0.47	0.22	12.4	3.78	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,777	10,777	0.24	1.64	0.79	11,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.36	5.66	7.11	83.8	0.00	0.00	17.6	17.6	0.00	4.13	4.13	—	17,826	17,826	0.82	0.67	30.3	18,078
Vendor	0.34	0.17	8.83	2.66	0.06	0.11	2.14	2.25	0.11	0.59	0.70	—	7,695	7,695	0.17	1.17	9.46	8,057
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.16	1.03	1.30	15.3	0.00	0.00	3.22	3.22	0.00	0.75	0.75	—	2,951	2,951	0.14	0.11	5.02	2,993
Vendor	0.06	0.03	1.61	0.49	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,274	1,274	0.03	0.19	1.57	1,334
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Ph2 Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.63	0.63	4.94	36.8	0.07	0.12	—	0.12	0.12	—	0.12	—	6,444	6,444	0.26	0.05	—	6,466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.35	2.78	20.7	0.04	0.07	—	0.07	0.07	—	0.07	—	3,632	3,632	0.15	0.03	—	3,644
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.51	3.78	0.01	0.01	—	0.01	0.01	—	0.01	—	601	601	0.02	< 0.005	—	603
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.95	8.05	7.46	137	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	26,231	26,231	1.11	0.90	88.9	26,616
Vendor	0.49	0.23	11.3	3.51	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,596	10,596	0.24	1.64	29.0	11,119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	8.53	7.59	8.32	104	0.00	0.00	24.9	24.9	0.00	5.83	5.83	—	24,120	24,120	0.38	0.94	2.31	24,412
Vendor	0.47	0.21	11.8	3.60	0.08	0.16	3.01	3.17	0.16	0.83	0.99	—	10,604	10,604	0.24	1.64	0.75	11,098
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.79	4.25	5.13	61.1	0.00	0.00	13.9	13.9	0.00	3.26	3.26	—	13,766	13,766	0.21	0.53	21.6	13,952
Vendor	0.27	0.12	6.68	2.00	0.04	0.09	1.69	1.78	0.09	0.47	0.56	—	5,974	5,974	0.13	0.92	7.02	6,259

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.87	0.78	0.94	11.1	0.00	0.00	2.54	2.54	0.00	0.60	0.60	—	2,279	2,279	0.04	0.09	3.58	2,310
Vendor	0.05	0.02	1.22	0.37	0.01	0.02	0.31	0.32	0.02	0.09	0.10	—	989	989	0.02	0.15	1.16	1,036
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Ph2 Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	2.43	34.6	0.05	0.09	—	0.09	0.09	—	0.09	—	4,937	4,937	0.20	0.04	—	4,954
Paving	—	12.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	2.43	34.6	0.05	0.09	—	0.09	0.09	—	0.09	—	4,937	4,937	0.20	0.04	—	4,954
Paving	—	12.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.28	3.98	0.01	0.01	—	0.01	0.01	—	0.01	—	568	568	0.02	< 0.005	—	570
Paving	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.99	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	406	406	< 0.005	0.01	1.26	412
Vendor	0.03	0.01	0.74	0.23	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	709	709	0.02	0.11	1.81	743
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.12	1.51	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	373	373	0.01	0.01	0.03	378
Vendor	0.03	0.01	0.78	0.24	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	710	710	0.02	0.11	0.05	742
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	43.5	43.5	< 0.005	< 0.005	0.06	44.1
Vendor	< 0.005	< 0.005	0.09	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	81.6	81.6	< 0.005	0.01	0.09	85.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.20	7.20	< 0.005	< 0.005	0.01	7.30
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.01	14.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Ph2 Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	0.01	0.01	—	0.01	0.01	—	0.01	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	0.01	0.01	—	0.01	0.01	—	0.01	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	225	225	0.01	< 0.005	—	225
Architectural Coatings	—	5.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.2	37.2	< 0.005	< 0.005	—	37.3
Architectural Coatings	—	1.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.79	1.61	1.49	27.3	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	5,246	5,246	0.22	0.18	17.8	5,323
Vendor	0.24	0.11	5.66	1.75	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,298	5,298	0.12	0.82	14.5	5,559
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.52	1.66	20.7	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	4,824	4,824	0.08	0.19	0.46	4,882
Vendor	0.24	0.11	5.90	1.80	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,302	5,302	0.12	0.82	0.38	5,549
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.45	0.54	6.49	0.00	0.00	1.48	1.48	0.00	0.35	0.35	—	1,463	1,463	0.02	0.06	2.30	1,482
Vendor	0.07	0.03	1.78	0.53	0.01	0.02	0.45	0.47	0.02	0.12	0.15	—	1,587	1,587	0.04	0.25	1.86	1,663
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.18	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	242	242	< 0.005	0.01	0.38	245
Vendor	0.01	0.01	0.32	0.10	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	263	263	0.01	0.04	0.31	275
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Ph2 Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	0.01	0.01	—	0.01	0.01	—	0.01	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.34	4.89	0.01	0.01	—	0.01	0.01	—	0.01	—	751	751	0.03	0.01	—	753
Architectural Coatings	—	18.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.19	2.66	0.01	0.01	—	0.01	0.01	—	0.01	—	408	408	0.02	< 0.005	—	410
Architectural Coatings	—	10.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.49	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	67.6	67.6	< 0.005	< 0.005	—	67.8
Architectural Coatings	—	1.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.72	1.53	1.32	25.3	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	5,149	5,149	0.06	0.18	16.0	5,220
Vendor	0.24	0.11	5.44	1.71	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,201	5,201	0.12	0.78	13.2	5,450
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.63	1.44	1.49	19.1	0.00	0.00	4.97	4.97	0.00	1.17	1.17	—	4,736	4,736	0.07	0.18	0.41	4,791
Vendor	0.23	0.10	5.68	1.76	0.04	0.08	1.51	1.58	0.08	0.42	0.50	—	5,205	5,205	0.12	0.78	0.34	5,440
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.78	0.90	10.9	0.00	0.00	2.69	2.69	0.00	0.63	0.63	—	2,609	2,609	0.04	0.10	3.75	2,643
Vendor	0.13	0.06	3.09	0.94	0.02	0.04	0.81	0.86	0.04	0.23	0.27	—	2,830	2,830	0.07	0.42	3.11	2,962
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.16	1.99	0.00	0.00	0.49	0.49	0.00	0.11	0.11	—	432	432	0.01	0.02	0.62	438
Vendor	0.02	0.01	0.56	0.17	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	—	469	469	0.01	0.07	0.51	490
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Ph1 Mass Grading	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph1 Blasting	Grading	6/1/2023	3/5/2024	5.00	199	—
Ph2 Remedial Grading	Grading	3/6/2024	6/6/2024	5.00	67.0	—
Ph2 Building Construction	Building Construction	6/7/2024	10/15/2026	5.00	615	—
Ph2 Paving	Paving	8/9/2027	10/5/2027	5.00	42.0	—
Ph2 Architectural Coating	Architectural Coating	8/1/2026	10/5/2027	5.00	307	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	8.00	8.00	670	0.40

Ph1 Mass Grading	Tractors/Loaders/Backh	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph1 Mass Grading	Excavators	Diesel	Tier 4 Final	4.00	8.00	400	0.38
Ph1 Mass Grading	Scrapers	Diesel	Tier 4 Final	16.0	8.00	570	0.48
Ph1 Mass Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph1 Mass Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	670	0.40
Ph1 Blasting	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	400	0.37
Ph1 Blasting	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	425	0.38
Ph1 Blasting	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	600	0.40
Ph1 Blasting	Bore/Drill Rigs	Diesel	Tier 4 Final	3.00	8.00	360	0.50
Ph2 Remedial Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	425	0.37
Ph2 Remedial Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	400	0.38
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	4.00	8.00	670	0.40
Ph2 Remedial Grading	Scrapers	Diesel	Tier 4 Final	8.00	8.00	570	0.48
Ph2 Remedial Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	425	0.40
Ph2 Remedial Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	500	0.38
Ph2 Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	231	0.29
Ph2 Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	89.0	0.20
Ph2 Building Construction	Generator Sets	Diesel	Tier 4 Final	2.00	8.00	84.0	0.74
Ph2 Building Construction	Welders	Diesel	Tier 4 Final	2.00	8.00	46.0	0.45
Ph2 Building Construction	Crawler Tractors	Diesel	Tier 4 Final	3.00	8.00	212	0.43
Ph2 Paving	Pavers	Diesel	Tier 4 Final	4.00	8.00	130	0.42
Ph2 Paving	Paving Equipment	Diesel	Tier 4 Final	4.00	8.00	132	0.36

| Ph2 Paving | Rollers | Diesel | Tier 4 Final | 4.00 | 8.00 | 80.0 | 0.38 |
| Ph2 Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 2.00 | 8.00 | 78.0 | 0.48 |

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Ph1 Mass Grading	—	—	—	—
Ph1 Mass Grading	Worker	82.5	18.5	LDA,LDT1,LDT2
Ph1 Mass Grading	Vendor	114	10.2	HHDT,MHDT
Ph1 Mass Grading	Hauling	0.00	20.0	HHDT
Ph1 Mass Grading	Onsite truck	—	—	HHDT
Ph1 Blasting	—	—	—	—
Ph1 Blasting	Worker	27.5	18.5	LDA,LDT1,LDT2
Ph1 Blasting	Vendor	114	10.2	HHDT,MHDT
Ph1 Blasting	Hauling	0.00	20.0	HHDT
Ph1 Blasting	Onsite truck	—	—	HHDT
Ph2 Remedial Grading	—	—	—	—
Ph2 Remedial Grading	Worker	47.5	18.5	LDA,LDT1,LDT2
Ph2 Remedial Grading	Vendor	38.0	10.2	HHDT,MHDT
Ph2 Remedial Grading	Hauling	0.00	20.0	HHDT
Ph2 Remedial Grading	Onsite truck	—	—	HHDT
Ph2 Building Construction	—	—	—	—
Ph2 Building Construction	Worker	1,902	18.5	LDA,LDT1,LDT2
Ph2 Building Construction	Vendor	352	10.2	HHDT,MHDT
Ph2 Building Construction	Hauling	0.00	20.0	HHDT
Ph2 Building Construction	Onsite truck	—	—	HHDT

Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for each phase.
Construction: Architectural Coatings	Project will utilize super-compliant coatings.

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APPENDIX 5.2:

BLASTING EMISSIONS CALCULATIONS

URBAN
CROSSROADS

BLASTING PM10 and PM2.5

E = .000014(A)^1.5*.52 lbs PM10/lbs TSP

E = PM10 emissions, lbs/total
A = Area to be blasted (SF)

A (day) =	40,000	
E =	58.24	lbs PM10/day without watering
E =	12.23	lbs PM2.5/day without watering
CE =	50.00%	pre-wetting blasting areas and stabalizing soils once blasting is complete
		(Source:Western regional Air Partnership)

| E (PM10) = | 29.12 | lbs of PM10/day with watering |
| E (PM2.5) = | 6.115 | lbs of PM2.5/day with watering |

BLASTING NOX, SOX, and CO

E = (Blasts/year) * (avg. charges/blast) *(avg. lbs./charge) * 1/2000(lbs to tons conversion) *EF

		ANFO Emission Factors (EF)		
Blasts/year	75	CO	67	(lb released/tons used)
Maxlbs./blastcharge	25	NOX	17	(lb released/tons used)
		SOX	2	(lb released/tons used)

E (CO) =	62.81	lbs of CO released per year
E (NOX) =	15.94	lbs of NOX released per year
E (SOX)=	1.88	lbs of SOX released per year

E (CO) =	0.84	lbs of CO released per day
E (NOX) =	0.21	lbs of NOX released per day
E (SOX) =	0.03	lbs of SOX released per day

BLASTING CO2

E = (Blasts/year) * (avg. charges/blast) *(avg. lbs./charge) * 1/2000(lbs to tons conversion) *EF

		ANFO Emission Factors (EF) Climate Registry	
Blasts/year	75	CO2	10.21 (kg CO2/gallons)
Maxlbs./blastcharge	25	CO2	22.50917 (lbs CO2/gallons)
% Diesel Fuel Oil No.2	6%		
Density of Diesel (lbs/gal)	7.1		
Gal of Diesel Fuel Oil No.2/blast	0.2		

| E (CO2) = | 356.66 | lbs of CO2 released per year |
| E (CO2) = | 0.16 | MT of CO2 released per year |

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APPENDIX 5.3:

CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS

14064 West Campus Upper Plateau Ops Unmitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Ops Unmitigated
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.907344901223, -117.30803322631292
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—
User Defined Industrial	3,063	User Defined Unit	0.00	0.00	0.00	—	—	—
User Defined Commercial	1,763	User Defined Unit	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	256	351	371	2,429	7.02	9.04	571	580	8.61	145	154	4,510	773,351	777,861	481	47.6	2,408	806,469
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	209	307	389	1,827	6.64	8.66	571	580	8.32	145	154	4,510	734,906	739,416	481	48.4	562	766,420

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	155	260	247	1,410	4.54	4.79	385	390	4.49	98.0	102	4,510	518,474	522,984	474	35.5	1,069	546,480
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.3	47.5	45.1	257	0.83	0.87	70.3	71.2	0.82	17.9	18.7	747	85,839	86,586	78.5	5.87	177	90,476

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817
Area	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	256	351	371	2,429	7.02	9.04	571	580	8.61	145	154	4,510	773,351	777,861	481	47.6	2,408	806,469
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754

Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	209	307	389	1,827	6.64	8.66	571	580	8.32	145	154	4,510	734,906	739,416	481	48.4	562	766,420
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	125	110	230	1,237	4.50	3.91	385	389	3.70	98.0	102	—	463,557	463,557	13.4	30.0	556	473,397
Area	26.4	147	1.25	149	0.01	0.26	—	0.26	0.20	—	0.20	—	611	611	0.03	0.01	—	613
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	7.16	6.53	0.01	0.38	0.00	0.38	0.38	0.00	0.38	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	155	260	247	1,410	4.54	4.79	385	390	4.49	98.0	102	4,510	518,474	522,984	474	35.5	1,069	546,480
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376
Area	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,202	7,202	0.69	0.08	—	7,244
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.19	0.16	1.58	3.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	1.31	1.19	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	217	217	0.01	< 0.005	0.00	218

Total	28.3	47.5	45.1	257	0.83	0.87	70.3	71.2	0.82	17.9	18.7	747	85,839	86,586	78.5	5.87	177	90,476

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	87.6	78.8	50.0	1,128	2.68	1.04	275	276	0.96	69.4	70.3	—	271,472	271,472	7.63	5.52	731	274,037
Regional Shopping Center	47.8	44.2	36.2	342	0.89	0.62	79.9	80.5	0.58	20.3	20.9	—	90,520	90,520	3.61	4.02	259	92,068
Unrefrigerated Warehouse-No Rail	19.4	17.5	11.1	250	0.60	0.23	61.0	61.2	0.21	15.4	15.6	—	60,220	60,220	1.69	1.22	162	60,789
Refrigerated Warehouse-No Rail	2.97	2.67	1.69	38.3	0.09	0.04	9.33	9.36	0.03	2.35	2.39	—	9,210	9,210	0.26	0.19	24.8	9,297
City Park	30.6	27.1	34.1	340	0.96	0.65	88.0	88.6	0.61	22.3	22.9	—	98,353	98,353	3.07	3.94	285	99,889
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	4.80	2.52	115	31.6	1.10	2.03	38.0	40.0	1.94	10.2	12.1	—	118,328	118,328	2.04	17.9	285	123,991
User Defined Commercial	2.51	1.32	60.1	16.5	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,790	61,790	1.06	9.33	149	64,747
Total	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	84.4	75.6	55.5	912	2.48	1.04	275	276	0.96	69.4	70.3	—	250,667	250,667	7.82	5.93	18.9	252,648
Regional Shopping Center	45.1	41.5	38.7	291	0.83	0.62	79.9	80.5	0.58	20.3	20.9	—	85,063	85,063	3.76	4.15	6.71	86,400
Unrefrigerated Warehouse-No Rail	18.7	16.8	12.3	202	0.55	0.23	61.0	61.2	0.21	15.4	15.6	—	55,605	55,605	1.73	1.32	4.20	56,044
Refrigerated Warehouse-No Rail	2.86	2.56	1.88	30.9	0.08	0.04	9.33	9.36	0.03	2.35	2.39	—	8,504	8,504	0.27	0.20	0.64	8,571
City Park	29.1	25.7	36.6	278	0.90	0.65	88.0	88.6	0.61	22.3	22.9	—	92,328	92,328	3.13	4.06	7.39	93,625
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.69	2.43	120	31.8	1.10	2.03	38.0	40.0	1.95	10.2	12.1	—	118,364	118,364	2.03	17.9	7.40	123,752
User Defined Commercial	2.45	1.27	62.8	16.6	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,809	61,809	1.06	9.34	3.86	64,622
Total	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	11.3	10.1	7.69	128	0.34	0.14	36.7	36.9	0.13	9.27	9.39	—	30,929	30,929	0.96	0.74	38.5	31,212
Regional Shopping Center	4.95	4.56	4.22	32.2	0.09	0.07	8.35	8.42	0.06	2.12	2.18	—	8,212	8,212	0.37	0.41	10.7	8,353
Unrefrigerated Warehouse-No Rail	2.48	2.22	1.69	28.1	0.07	0.03	8.08	8.11	0.03	2.04	2.07	—	6,808	6,808	0.21	0.16	8.47	6,870
Refrigerated Warehouse-No Rail	0.38	0.34	0.26	4.29	0.01	< 0.005	1.24	1.24	< 0.005	0.31	0.32	—	1,041	1,041	0.03	0.02	1.29	1,051
City Park	2.74	2.41	3.53	27.3	0.09	0.06	8.26	8.32	0.06	2.10	2.15	—	7,989	7,989	0.27	0.35	10.5	8,111
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.63	0.33	16.1	4.19	0.15	0.27	5.01	5.28	0.26	1.34	1.60	—	14,230	14,230	0.24	2.15	14.8	14,892
User Defined Commercial	0.33	0.17	8.52	2.22	0.08	0.14	2.65	2.80	0.14	0.71	0.85	—	7,538	7,538	0.13	1.14	7.84	7,889
Total	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,500	43,500	4.15	0.50	—	43,754
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,500	43,500	4.15	0.50	—	43,754
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,654	2,654	0.25	0.03	—	2,669
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	307	307	0.03	< 0.005	—	308
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939

Refrigerated	—	—	—	—	—	—	—	—	—	—	—	—	3,128	3,128	0.30	0.04	—	3,146
City Park	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.02	< 0.005	—	181
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,202	7,202	0.69	0.08	—	7,244

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Total	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Total	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,136	3,826	4,962	117	2.81	—	8,719
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701

City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,136	3,826	4,962	117	2.81	—	8,719
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	99.4	335	434	10.2	0.25	—	763
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.78	12.7	16.5	0.39	0.01	—	29.0
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	188	633	821	19.3	0.47	—	1,444
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.7	124	160	3.77	0.09	—	282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	34.7	34.7	< 0.005	< 0.005	—	34.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61

Refrigerated	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	84.4
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Total	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Total	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.19	0.16	1.58	3.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	433	433	0.02	< 0.005	—	434
Total	0.19	0.16	1.58	3.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	433	433	0.02	< 0.005	—	434

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.51	0.47	1.31	1.19	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	217	217	0.01	< 0.005	0.00	218
Total	0.51	0.47	1.31	1.19	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	217	217	0.01	< 0.005	0.00	218

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Summer (Max)	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Avoided	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sequestered	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Removed	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CH4	Subtotal	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Winter (Max)	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	394,977	32,067	29,101	106,165,726
Regional Shopping Center	6,354	12,303	8,990	2,766,960	52,049	112,827	82,441	23,751,698

Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	87,617	7,186	2,874	23,367,583
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	13,400	1,092	441	3,573,488
City Park	2,145	5,550	6,202	1,171,975	42,961	111,175	124,221	23,474,668
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	43,259	3,531	98.1	11,467,585
User Defined Commercial	705	58.2	52.9	189,665	22,590	1,864	1,694	6,074,985

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	7,479,975	2,493,325	509,160

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Office Park	16,900,118	346	0.0330	0.0040	0.00
Regional Shopping Center	1,951,952	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,946,160	346	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	19,920,000	346	0.0330	0.0040	0.00
City Park	1,144,757	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Office Park	313,374,812	0.00
Regional Shopping Center	11,919,750	0.00
Unrefrigerated Warehouse-No Rail	592,592,000	0.00
Refrigerated Warehouse-No Rail	115,625,000	0.00
City Park	0.00	41,633,942
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
User Defined Commercial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Office Park	1,640	—
Regional Shopping Center	169	—
Unrefrigerated Warehouse-No Rail	2,409	—
Refrigerated Warehouse-No Rail	470	—
City Park	5.18	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
User Defined Commercial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Tractors/Loaders/Backhoes	Diesel	Average	18.0	4.00	84.0	0.37

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	19.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3
Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9
Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00

Solid Waste	84.9
Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3
Unemployment	81.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712
Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705
Active commuting	87.46310792
Social	—

2-parent households	6.223533941
Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712
Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7
Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4
Cognitively Disabled	15.9
Physically Disabled	19.5

Heart Attack ER Admissions	20.1
Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9
Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9
Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	5.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan.
Operations: Vehicle Data	Trips adjusted per Project traffic study
Operations: Fleet Mix	Fleet mix adjusted based on Project traffic study
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.
Operations: Energy Use	Electricity usage based on CalEEMod 2020 calculations. Project will not use natural gas.
Operations: Off-Road Equipment	Assumes 3.6 pieces of equipment per million square feet.

14064 West Campus Upper Plateau Ops Mitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Ops Mitigated
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.907344901223, -117.30803322631292
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—
User Defined Industrial	3,063	User Defined Unit	0.00	0.00	0.00	—	—	—
User Defined Commercial	1,763	User Defined Unit	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-4	Require Low-Flow Water Fixtures
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	255	351	317	2,430	7.02	6.37	571	577	5.97	145	151	4,510	773,351	777,861	481	47.6	2,408	806,469
Mit.	216	315	315	2,214	7.01	5.99	571	577	5.68	145	151	4,141	771,352	775,493	443	46.7	2,408	802,881

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
% Reduced	15%	10%	1%	9%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	8%	< 0.5%	< 0.5%	8%	2%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	208	307	335	1,828	6.64	5.99	571	577	5.68	145	151	4,510	734,906	739,416	481	48.4	562	766,420
Mit.	208	307	335	1,828	6.64	5.99	571	577	5.68	145	151	4,141	733,666	737,807	443	47.5	562	763,594
% Reduced	—	—	—	—	—	—	—	—	—	—	—	8%	< 0.5%	< 0.5%	8%	2%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	154	260	233	1,411	4.54	4.26	385	390	3.98	98.0	102	4,510	518,474	522,984	474	35.5	1,069	546,480
Mit.	128	235	232	1,262	4.53	4.00	385	389	3.78	98.0	102	4,141	516,714	520,855	436	34.6	1,069	543,132
% Reduced	17%	9%	1%	11%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	8%	< 0.5%	< 0.5%	8%	3%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.2	47.4	42.6	257	0.83	0.78	70.3	71.1	0.73	17.9	18.6	747	85,839	86,586	78.5	5.87	177	90,476
Mit.	23.3	42.9	42.4	230	0.83	0.73	70.3	71.0	0.69	17.9	18.6	686	85,548	86,234	72.2	5.72	177	89,922
% Reduced	17%	9%	1%	11%	< 0.5%	6%	—	< 0.5%	5%	—	< 0.5%	8%	< 0.5%	< 0.5%	8%	3%	—	1%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817
Area	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	255	351	317	2,430	7.02	6.37	571	577	5.97	145	151	4,510	773,351	777,861	481	47.6	2,408	806,469
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663
Area	—	122	—	—	—	—	—	—	—	—	—	122	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	208	307	335	1,828	6.64	5.99	571	577	5.68	145	151	4,510	734,906	739,416	481	48.4	562	766,420
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	125	110	230	1,237	4.50	3.91	385	389	3.70	98.0	102	—	463,557	463,557	13.4	30.0	556	473,397
Area	26.4	147	1.25	149	0.01	0.26	—	0.26	0.20	—	0.20	—	611	611	0.03	0.01	—	613
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	0.75	6.53	0.01	0.04	0.00	0.04	0.04	0.00	0.04	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	154	260	233	1,411	4.54	4.26	385	390	3.98	98.0	102	4,510	518,474	522,984	474	35.5	1,069	546,480
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376
Area	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,202	7,202	0.69	0.08	—	7,244
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	28.2	47.4	42.6	257	0.83	0.78	70.3	71.1	0.73	17.9	18.6	747	85,839	86,586	78.5	5.87	177	90,476

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,633	43,633	4.16	0.50	—	43,887
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622

Stationar	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	216	315	315	2,214	7.01	5.99	571	577	5.68	145	151	4,141	771,352	775,493	443	46.7	2,408	802,881
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	208	307	335	1,828	6.64	5.99	571	577	5.68	145	151	4,141	733,666	737,807	443	47.5	562	763,594
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	125	110	230	1,237	4.50	3.91	385	389	3.70	98.0	102	—	463,557	463,557	13.4	30.0	556	473,397
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,591	43,591	4.16	0.50	—	43,845
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	0.75	6.53	0.01	0.04	0.00	0.04	0.04	0.00	0.04	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	128	235	232	1,262	4.53	4.00	385	389	3.78	98.0	102	4,141	516,714	520,855	436	34.6	1,069	543,132
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376

Area	—	22.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,217	7,217	0.69	0.08	—	7,259
Water	—	—	—	—	—	—	—	—	—	—	—	267	934	1,201	27.5	0.66	—	2,085
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	23.3	42.9	42.4	230	0.83	0.73	70.3	71.0	0.69	17.9	18.6	686	85,548	86,234	72.2	5.72	177	89,922

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	87.6	78.8	50.0	1,128	2.68	1.04	275	276	0.96	69.4	70.3	—	271,472	271,472	7.63	5.52	731	274,037
Regional Shopping Center	47.8	44.2	36.2	342	0.89	0.62	79.9	80.5	0.58	20.3	20.9	—	90,520	90,520	3.61	4.02	259	92,068
Unrefrigerated Warehouse-No Rail	19.4	17.5	11.1	250	0.60	0.23	61.0	61.2	0.21	15.4	15.6	—	60,220	60,220	1.69	1.22	162	60,789

Refrigerated	2.97	2.67	1.69	38.3	0.09	0.04	9.33	9.36	0.03	2.35	2.39	—	9,210	9,210	0.26	0.19	24.8	9,297
City Park	30.6	27.1	34.1	340	0.96	0.65	88.0	88.6	0.61	22.3	22.9	—	98,353	98,353	3.07	3.94	285	99,889
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.80	2.52	115	31.6	1.10	2.03	38.0	40.0	1.94	10.2	12.1	—	118,328	118,328	2.04	17.9	285	123,991
User Defined Commercial	2.51	1.32	60.1	16.5	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,790	61,790	1.06	9.33	149	64,747
Total	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	84.4	75.6	55.5	912	2.48	1.04	275	276	0.96	69.4	70.3	—	250,667	250,667	7.82	5.93	18.9	252,648
Regional Shopping Center	45.1	41.5	38.7	291	0.83	0.62	79.9	80.5	0.58	20.3	20.9	—	85,063	85,063	3.76	4.15	6.71	86,400
Unrefrigerated Warehouse-No Rail	18.7	16.8	12.3	202	0.55	0.23	61.0	61.2	0.21	15.4	15.6	—	55,605	55,605	1.73	1.32	4.20	56,044
Refrigerated Warehouse-No Rail	2.86	2.56	1.88	30.9	0.08	0.04	9.33	9.36	0.03	2.35	2.39	—	8,504	8,504	0.27	0.20	0.64	8,571
City Park	29.1	25.7	36.6	278	0.90	0.65	88.0	88.6	0.61	22.3	22.9	—	92,328	92,328	3.13	4.06	7.39	93,625
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	4.69	2.43	120	31.8	1.10	2.03	38.0	40.0	1.95	10.2	12.1	—	118,364	118,364	2.03	17.9	7.40	123,752
User Defined Commercial	2.45	1.27	62.8	16.6	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,809	61,809	1.06	9.34	3.86	64,622
Total	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	11.3	10.1	7.69	128	0.34	0.14	36.7	36.9	0.13	9.27	9.39	—	30,929	30,929	0.96	0.74	38.5	31,212
Regional Shopping Center	4.95	4.56	4.22	32.2	0.09	0.07	8.35	8.42	0.06	2.12	2.18	—	8,212	8,212	0.37	0.41	10.7	8,353
Unrefrigerated Warehouse-No Rail	2.48	2.22	1.69	28.1	0.07	0.03	8.08	8.11	0.03	2.04	2.07	—	6,808	6,808	0.21	0.16	8.47	6,870
Refrigerated Warehouse-No Rail	0.38	0.34	0.26	4.29	0.01	< 0.005	1.24	1.24	< 0.005	0.31	0.32	—	1,041	1,041	0.03	0.02	1.29	1,051
City Park	2.74	2.41	3.53	27.3	0.09	0.06	8.26	8.32	0.06	2.10	2.15	—	7,989	7,989	0.27	0.35	10.5	8,111
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.63	0.33	16.1	4.19	0.15	0.27	5.01	5.28	0.26	1.34	1.60	—	14,230	14,230	0.24	2.15	14.8	14,892
User Defined Commercial	0.33	0.17	8.52	2.22	0.08	0.14	2.65	2.80	0.14	0.71	0.85	—	7,538	7,538	0.13	1.14	7.84	7,889
Total	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	87.6	78.8	50.0	1,128	2.68	1.04	275	276	0.96	69.4	70.3	—	271,472	271,472	7.63	5.52	731	274,037
Regional Shopping Center	47.8	44.2	36.2	342	0.89	0.62	79.9	80.5	0.58	20.3	20.9	—	90,520	90,520	3.61	4.02	259	92,068
Unrefrigerated Warehouse-No Rail	19.4	17.5	11.1	250	0.60	0.23	61.0	61.2	0.21	15.4	15.6	—	60,220	60,220	1.69	1.22	162	60,789
Refrigerated Warehouse-No Rail	2.97	2.67	1.69	38.3	0.09	0.04	9.33	9.36	0.03	2.35	2.39	—	9,210	9,210	0.26	0.19	24.8	9,297
City Park	30.6	27.1	34.1	340	0.96	0.65	88.0	88.6	0.61	22.3	22.9	—	98,353	98,353	3.07	3.94	285	99,889
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.80	2.52	115	31.6	1.10	2.03	38.0	40.0	1.94	10.2	12.1	—	118,328	118,328	2.04	17.9	285	123,991
User Defined Commercial	2.51	1.32	60.1	16.5	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,790	61,790	1.06	9.33	149	64,747
Total	196	174	308	2,148	6.90	5.67	571	577	5.35	145	151	—	709,893	709,893	19.4	42.1	1,895	724,817

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	84.4	75.6	55.5	912	2.48	1.04	275	276	0.96	69.4	70.3	—	250,667	250,667	7.82	5.93	18.9	252,648
Regional Shopping Center	45.1	41.5	38.7	291	0.83	0.62	79.9	80.5	0.58	20.3	20.9	—	85,063	85,063	3.76	4.15	6.71	86,400
Unrefrigerated Warehouse-No Rail	18.7	16.8	12.3	202	0.55	0.23	61.0	61.2	0.21	15.4	15.6	—	55,605	55,605	1.73	1.32	4.20	56,044
Refrigerated Warehouse-No Rail	2.86	2.56	1.88	30.9	0.08	0.04	9.33	9.36	0.03	2.35	2.39	—	8,504	8,504	0.27	0.20	0.64	8,571
City Park	29.1	25.7	36.6	278	0.90	0.65	88.0	88.6	0.61	22.3	22.9	—	92,328	92,328	3.13	4.06	7.39	93,625
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	4.69	2.43	120	31.8	1.10	2.03	38.0	40.0	1.95	10.2	12.1	—	118,364	118,364	2.03	17.9	7.40	123,752
User Defined Commercial	2.45	1.27	62.8	16.6	0.58	1.06	19.8	20.9	1.02	5.31	6.32	—	61,809	61,809	1.06	9.34	3.86	64,622
Total	187	166	328	1,762	6.52	5.67	571	577	5.35	145	151	—	672,340	672,340	19.8	42.9	49.1	685,663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	11.3	10.1	7.69	128	0.34	0.14	36.7	36.9	0.13	9.27	9.39	—	30,929	30,929	0.96	0.74	38.5	31,212
Regional Shopping Center	4.95	4.56	4.22	32.2	0.09	0.07	8.35	8.42	0.06	2.12	2.18	—	8,212	8,212	0.37	0.41	10.7	8,353

Unrefrigerated	2.48	2.22	1.69	28.1	0.07	0.03	8.08	8.11	0.03	2.04	2.07	—	6,808	6,808	0.21	0.16	8.47	6,870
Refrigerated Warehouse-No Rail	0.38	0.34	0.26	4.29	0.01	< 0.005	1.24	1.24	< 0.005	0.31	0.32	—	1,041	1,041	0.03	0.02	1.29	1,051
City Park	2.74	2.41	3.53	27.3	0.09	0.06	8.26	8.32	0.06	2.10	2.15	—	7,989	7,989	0.27	0.35	10.5	8,111
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.63	0.33	16.1	4.19	0.15	0.27	5.01	5.28	0.26	1.34	1.60	—	14,230	14,230	0.24	2.15	14.8	14,892
User Defined Commercial	0.33	0.17	8.52	2.22	0.08	0.14	2.65	2.80	0.14	0.71	0.85	—	7,538	7,538	0.13	1.14	7.84	7,889
Total	22.8	20.1	42.0	226	0.82	0.71	70.3	71.0	0.67	17.9	18.6	—	76,747	76,747	2.21	4.97	92.1	78,376

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,500	43,500	4.15	0.50	—	43,754
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004

City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,500	43,500	4.15	0.50	—	43,754
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	2,654	—	—	—	—	—	—	—	—	—	—	2,654	2,654	0.25	0.03	—	2,669
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	307	307	0.03	< 0.005	—	308
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,128	3,128	0.30	0.04	—	3,146
City Park	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.02	< 0.005	—	181
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,202	7,202	0.69	0.08	—	7,244

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	16,076	—	—	—	—	—	—	—	—	—	—	16,076	16,076	1.53	0.19	—	16,170
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,856	1,856	0.18	0.02	—	1,866
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,708	5,708	0.54	0.07	—	5,741
Refrigerated Warehouse-No Rail	—	18,907	—	—	—	—	—	—	—	—	—	—	18,907	18,907	1.80	0.22	—	19,017
City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,633	43,633	4.16	0.50	—	43,887
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,673
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	18,894	18,894	1.80	0.22	—	19,004
City Park	—	—	—	—	—	—	—	—	—	—	—	—	1,086	1,086	0.10	0.01	—	1,092
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	43,500	43,500	4.15	0.50	—	43,754
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	2,659	2,659	0.25	0.03	—	2,675

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	307	307	0.03	< 0.005	—	309
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	941	941	0.09	0.01	—	947
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,130	3,130	0.30	0.04	—	3,148
City Park	—	—	—	—	—	—	—	—	—	—	—	—	180	180	0.02	< 0.005	—	181
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,217	7,217	0.69	0.08	—	7,259

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Refrigera Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	38.6	35.6	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Total	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.83	4.45	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Total	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	19.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	22.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,136	3,826	4,962	117	2.81	—	8,719
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	600	2,023	2,624	61.8	1.49	—	4,611
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	22.8	77.0	99.8	2.35	0.06	—	175
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,136	3,826	4,962	117	2.81	—	8,719
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	222	747	968	22.8	0.55	—	1,701
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	99.4	335	434	10.2	0.25	—	763
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	3.78	12.7	16.5	0.39	0.01	—	29.0

												BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	188	633	821	19.3	0.47	—	1,444
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.7	124	160	3.77	0.09	—	282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	34.7	34.7	< 0.005	< 0.005	—	34.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	489	1,647	2,136	50.3	1.21	—	3,754
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	18.8	63.2	82.0	1.93	0.05	—	144

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	923	3,111	4,034	95.0	2.29	—	7,090
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	181	611	792	18.7	0.45	—	1,393
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	489	1,647	2,136	50.3	1.21	—	3,754
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	18.8	63.2	82.0	1.93	0.05	—	144
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	923	3,111	4,034	95.0	2.29	—	7,090

Refrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	181	611	792	18.7	0.45	—	1,393
City Park	—	—	—	—	—	—	—	—	—	—	0.00	210	210	0.02	< 0.005	—	211
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	80.9	273	354	8.33	0.20	—	622
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	3.11	10.5	13.6	0.32	0.01	—	23.8
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	153	515	668	15.7	0.38	—	1,174
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	30.0	101	131	3.09	0.07	—	231
City Park	—	—	—	—	—	—	—	—	—	—	0.00	34.7	34.7	< 0.005	< 0.005	—	34.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	267	934	1,201	27.5	0.66	—	2,085

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrige rated Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigera ted Warehou se-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	884	0.00	884	88.3	0.00	—	3,092

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	91.1	0.00	91.1	9.10	0.00	—	319
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,298	0.00	1,298	130	0.00	—	4,542
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	253	0.00	253	25.3	0.00	—	886
City Park	—	—	—	—	—	—	—	—	—	—	—	2.79	0.00	2.79	0.28	0.00	—	9.77
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	146	0.00	146	14.6	0.00	—	512
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	15.1	0.00	15.1	1.51	0.00	—	52.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	752

											BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Refrigerated	—	—	—	—	—	—	—	—	—	—	41.9	0.00	41.9	4.19	0.00	—	147
City Park	—	—	—	—	—	—	—	—	—	—	0.46	0.00	0.46	0.05	0.00	—	1.62
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Commercial	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	84.4
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.52	2.52
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	510	510
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.42

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	84.4
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Total	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Total	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Total	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Total	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Total	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Tractors/ Loaders/ Backhoes	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Total	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Total	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Summer (Max)	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Avoided	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sequestered	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Removed	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Daily, Winter (Max)	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Avoided	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sequestered	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Removed	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Annual	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Avoided	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Sequestered	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Subtotal	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	Total	—	—	—	—	Total	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	Total	—	—	—	—	Total	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	394,977	32,067	29,101	106,165,726
Regional Shopping Center	6,354	12,303	8,990	2,766,960	52,049	112,827	82,441	23,751,698
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	87,617	7,186	2,874	23,367,583
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	13,400	1,092	441	3,573,488
City Park	2,145	5,550	6,202	1,171,975	42,961	111,175	124,221	23,474,668
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	43,259	3,531	98.1	11,467,585

User Defined Commercial	705	58.2	52.9	189,665	22,590	1,864	1,694	6,074,985

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	394,977	32,067	29,101	106,165,726
Regional Shopping Center	6,354	12,303	8,990	2,766,960	52,049	112,827	82,441	23,751,698
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	87,617	7,186	2,874	23,367,583
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	13,400	1,092	441	3,573,488
City Park	2,145	5,550	6,202	1,171,975	42,961	111,175	124,221	23,474,668
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	43,259	3,531	98.1	11,467,585
User Defined Commercial	705	58.2	52.9	189,665	22,590	1,864	1,694	6,074,985

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

0	0.00	7,479,975	2,493,325	509,160

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Office Park	16,900,118	346	0.0330	0.0040	0.00
Regional Shopping Center	1,951,952	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,946,160	346	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	19,920,000	346	0.0330	0.0040	0.00
City Park	1,144,757	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Office Park	16,900,118	346	0.0330	0.0040	0.00
Regional Shopping Center	1,951,952	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,946,160	346	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	19,920,000	346	0.0330	0.0040	0.00
City Park	1,144,757	346	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
User Defined Commercial	0.00	346	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Office Park	313,374,812	0.00
Regional Shopping Center	11,919,750	0.00
Unrefrigerated Warehouse-No Rail	592,592,000	0.00
Refrigerated Warehouse-No Rail	115,625,000	0.00
City Park	0.00	41,633,942
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
User Defined Commercial	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Office Park	255,149,772	0.00
Regional Shopping Center	9,788,499	0.00
Unrefrigerated Warehouse-No Rail	481,836,555	0.00
Refrigerated Warehouse-No Rail	94,650,625	0.00
City Park	0.00	41,633,942
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
User Defined Commercial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Office Park	1,640	—
Regional Shopping Center	169	—
Unrefrigerated Warehouse-No Rail	2,409	—
Refrigerated Warehouse-No Rail	470	—
City Park	5.18	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
User Defined Commercial	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Office Park	1,640	—
Regional Shopping Center	169	—

Unrefrigerated Warehouse-No Rail	2,409	—
Refrigerated Warehouse-No Rail	470	—
City Park	5.18	—
Other Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
User Defined Commercial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	18.0	4.00	84.0	0.37

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	18.0	4.00	84.0	0.37

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	19.0	1.00	50.0	300	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A

Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	97.6
AQ-PM	59.8
AQ-DPM	40.3
Drinking Water	70.7
Lead Risk Housing	53.6
Pesticides	13.2
Toxic Releases	64.0
Traffic	82.0
Effect Indicators	—
CleanUp Sites	82.5
Groundwater	97.9
Haz Waste Facilities/Generators	87.9
Impaired Water Bodies	0.00
Solid Waste	84.9

Sensitive Population	—
Asthma	71.5
Cardio-vascular	86.8
Low Birth Weights	97.0
Socioeconomic Factor Indicators	—
Education	82.5
Housing	59.7
Linguistic	82.8
Poverty	89.3
Unemployment	81.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	8.353650712
Employed	6.480174516
Median HI	22.3662261
Education	—
Bachelor's or higher	30.14243552
High school enrollment	100
Preschool enrollment	10.97138458
Transportation	—
Auto Access	10.29128705
Active commuting	87.46310792
Social	—
2-parent households	6.223533941

Voting	6.13370974
Neighborhood	—
Alcohol availability	44.43731554
Park access	43.37225715
Retail density	18.60644168
Supermarket access	67.43231105
Tree canopy	3.977928911
Housing	—
Homeownership	8.353650712
Housing habitability	10.4452714
Low-inc homeowner severe housing cost burden	45.06608495
Low-inc renter severe housing cost burden	46.23379956
Uncrowded housing	21.62196843
Health Outcomes	—
Insured adults	12.4085718
Arthritis	51.7
Asthma ER Admissions	24.0
High Blood Pressure	30.0
Cancer (excluding skin)	80.0
Asthma	9.8
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	27.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	7.4
Cognitively Disabled	15.9
Physically Disabled	19.5
Heart Attack ER Admissions	20.1

Mental Health Not Good	14.9
Chronic Kidney Disease	35.4
Obesity	8.3
Pedestrian Injuries	77.2
Physical Health Not Good	20.0
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	63.5
Current Smoker	15.5
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	18.1
Elderly	24.3
English Speaking	44.9
Foreign-born	53.3
Outdoor Workers	18.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.9
Traffic Density	76.9
Traffic Access	61.5
Other Indices	—
Hardship	89.9
Other Decision Support	—
2016 Voting	11.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	5.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on Project site plan.
Operations: Vehicle Data	Trips adjusted per Project traffic study
Operations: Fleet Mix	Fleet mix adjusted based on Project traffic study
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. As of 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.
Operations: Energy Use	Electricity usage based on CalEEMod 2020 calculations. Project will not use natural gas.
Operations: Off-Road Equipment	Assumes 3.6 pieces of equipment per million square feet.

Operations: Generators + Pumps EF	Emission factors adjusted based on Tier 4 emission standards.

APPENDIX 5.4:

CALEEMOD OPERATIONS EMISSIONS MODEL OUTPUTS – LSTS

14064 West Campus Upper Plateau Ops Unmitigated LST Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Ops Unmitigated LST
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.907344901223, -117.30803322631292
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—
User Defined Industrial	3,063	User Defined Unit	0.00	0.00	0.00	—	—	—
User Defined Commercial	1,763	User Defined Unit	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	190	302	132	721	0.89	4.02	60.0	64.0	3.87	15.2	19.1	4,510	141,857	146,366	468	11.8	702	162,290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	144	259	134	496	0.84	3.64	60.0	63.6	3.58	15.2	18.8	4,510	136,988	141,497	469	12.0	518	157,303

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	111	227	67.0	468	0.54	1.31	39.9	41.2	1.20	10.1	11.3	4,510	105,321	109,831	466	9.84	567	124,983
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.3	41.5	12.2	85.3	0.10	0.24	7.28	7.52	0.22	1.85	2.07	747	17,437	18,184	77.2	1.63	93.9	20,692

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639
Area	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	190	302	132	721	0.89	4.02	60.0	64.0	3.87	15.2	19.1	4,510	141,857	146,366	468	11.8	702	162,290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754

Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	52.3	47.7	0.09	2.75	0.00	2.75	2.75	0.00	2.75	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	144	259	134	496	0.84	3.64	60.0	63.6	3.58	15.2	18.8	4,510	136,988	141,497	469	12.0	518	157,303
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	80.7	77.2	50.0	295	0.49	0.44	39.9	40.3	0.41	10.1	10.5	—	50,404	50,404	5.33	4.39	54.6	51,900
Area	26.4	147	1.25	149	0.01	0.26	—	0.26	0.20	—	0.20	—	611	611	0.03	0.01	—	613
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	1.02	0.85	8.63	17.2	0.02	0.24	—	0.24	0.22	—	0.22	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	7.16	6.53	0.01	0.38	0.00	0.38	0.38	0.00	0.38	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	111	227	67.0	468	0.54	1.31	39.9	41.2	1.20	10.1	11.3	4,510	105,321	109,831	466	9.84	567	124,983
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593
Area	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,202	7,202	0.69	0.08	—	7,244
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.19	0.16	1.58	3.15	< 0.005	0.04	—	0.04	0.04	—	0.04	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	1.31	1.19	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	217	217	0.01	< 0.005	0.00	218

| Total | 20.3 | 41.5 | 12.2 | 85.3 | 0.10 | 0.24 | 7.28 | 7.52 | 0.22 | 1.85 | 2.07 | 747 | 17,437 | 18,184 | 77.2 | 1.63 | 93.9 | 20,692 |

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	55.1	53.3	13.4	201	0.30	0.17	27.5	27.6	0.16	6.93	7.09	—	29,862	29,862	2.89	1.68	73.0	30,507
Regional Shopping Center	38.6	37.4	14.0	107	0.16	0.14	13.1	13.3	0.13	3.33	3.46	—	16,697	16,697	1.85	1.34	42.5	17,186
Unrefrigerated Warehouse-No Rail	12.2	11.8	2.97	44.5	0.07	0.04	6.09	6.13	0.04	1.54	1.57	—	6,624	6,624	0.64	0.37	16.2	6,767
Refrigerated Warehouse-No Rail	1.87	1.81	0.45	6.81	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	1,013	1,013	0.10	0.06	2.48	1,035
City Park	19.8	19.1	7.75	61.7	0.11	0.09	8.78	8.87	0.08	2.23	2.31	—	10,815	10,815	0.99	0.76	28.4	11,096
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	1.47	0.91	20.1	11.9	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,795	8,795	0.49	1.35	17.8	9,229
User Defined Commercial	0.77	0.48	10.5	6.22	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,593	4,593	0.26	0.71	9.30	4,819
Total	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	52.4	50.5	14.5	195	0.27	0.17	27.5	27.6	0.16	6.93	7.09	—	27,815	27,815	3.22	1.76	1.89	28,420
Regional Shopping Center	36.1	34.8	14.8	107	0.15	0.14	13.1	13.3	0.13	3.33	3.46	—	15,825	15,825	2.04	1.39	1.10	16,290
Unrefrigerated Warehouse-No Rail	11.6	11.2	3.21	43.2	0.06	0.04	6.09	6.13	0.04	1.54	1.57	—	6,170	6,170	0.71	0.39	0.42	6,304
Refrigerated Warehouse-No Rail	1.78	1.71	0.49	6.60	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	944	944	0.11	0.06	0.06	964
City Park	18.5	17.7	8.25	60.1	0.10	0.09	8.78	8.87	0.08	2.23	2.31	—	10,226	10,226	1.08	0.79	0.74	10,489
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.37	0.82	21.1	12.3	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,831	8,831	0.49	1.36	0.46	9,249
User Defined Commercial	0.72	0.43	11.0	6.41	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,612	4,612	0.26	0.71	0.24	4,830
Total	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	6.96	6.70	1.98	26.8	0.04	0.02	3.67	3.69	0.02	0.93	0.95	—	3,428	3,428	0.39	0.22	3.84	3,506
Regional Shopping Center	4.00	3.85	1.64	12.1	0.02	0.02	1.38	1.39	0.01	0.35	0.36	—	1,543	1,543	0.21	0.14	1.76	1,591
Unrefrigerated Warehouse-No Rail	1.53	1.47	0.44	5.90	0.01	0.01	0.81	0.81	< 0.005	0.20	0.21	—	755	755	0.09	0.05	0.85	772
Refrigerated Warehouse-No Rail	0.23	0.23	0.07	0.90	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	115	115	0.01	0.01	0.13	118
City Park	1.73	1.66	0.78	5.80	0.01	0.01	0.82	0.83	0.01	0.21	0.22	—	884	884	0.09	0.07	1.05	908
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.19	0.11	2.75	1.60	0.01	0.02	0.31	0.33	0.02	0.08	0.10	—	1,059	1,059	0.06	0.16	0.92	1,110
User Defined Commercial	0.10	0.06	1.46	0.85	0.01	0.01	0.17	0.17	0.01	0.04	0.05	—	561	561	0.03	0.09	0.49	588
Total	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	39,439	3,202	2,906	10,600,672
Regional Shopping Center	6,354	12,303	8,990	2,766,960	8,604	18,529	13,539	3,915,225

Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	8,749	718	287	2,333,258
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	1,338	109	44.0	356,814
City Park	2,145	5,550	6,202	1,171,975	4,290	11,101	12,403	2,343,951
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	2,701	221	6.13	716,053
User Defined Commercial	705	58.2	52.9	189,665	1,411	116	106	379,331

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	7,479,975	2,493,325	509,160

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

14064 West Campus Upper Plateau Ops Mitigated LST Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14064 West Campus Upper Plateau Ops Mitigated LST
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.907344901223, -117.30803322631292
County	Riverside-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5480
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	1,763	1000sqft	40.5	1,763,170	0.00	—	—	—

Regional Shopping Center	161	1000sqft	3.69	160,920	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	2,563	1000sqft	58.8	2,562,560	0.00	—	—	—
Refrigerated Warehouse-No Rail	500	1000sqft	11.5	500,000	0.00	—	—	—
City Park	60.3	Acre	60.3	0.00	2,625,801	0.00	—	—
Other Asphalt Surfaces	8,486	1000sqft	195	0.00	0.00	—	—	—
User Defined Industrial	3,063	User Defined Unit	0.00	0.00	0.00	—	—	—
User Defined Commercial	1,763	User Defined Unit	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-4	Require Low-Flow Water Fixtures
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	189	302	77.7	722	0.89	1.36	60.0	61.3	1.22	15.2	16.4	4,510	141,857	146,366	468	11.8	702	162,290
Mit.	151	266	75.8	505	0.88	0.97	60.0	61.0	0.93	15.2	16.2	4,141	139,857	143,999	431	10.9	702	158,702

% Reduced	20%	12%	2%	30%	1%	28%	—	1%	24%	—	2%	8%	1%	2%	8%	8%	—	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	143	258	80.2	497	0.84	0.97	60.0	61.0	0.93	15.2	16.2	4,510	136,988	141,497	469	12.0	518	157,303
Mit.	143	258	80.2	497	0.84	0.97	60.0	61.0	0.93	15.2	16.2	4,141	135,748	139,889	431	11.0	518	154,477
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	8%	1%	1%	8%	8%	—	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	110	227	53.3	469	0.54	0.79	39.9	40.7	0.70	10.1	10.8	4,510	105,321	109,831	466	9.84	567	124,983
Mit.	83.8	202	52.0	320	0.53	0.52	39.9	40.4	0.50	10.1	10.6	4,141	103,561	107,702	428	8.92	567	121,635
% Reduced	24%	11%	2%	32%	2%	34%	—	1%	29%	—	2%	8%	2%	2%	8%	9%	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.1	41.3	9.72	85.5	0.10	0.14	7.28	7.42	0.13	1.85	1.97	747	17,437	18,184	77.2	1.63	93.9	20,692
Mit.	15.3	36.9	9.49	58.4	0.10	0.10	7.28	7.37	0.09	1.85	1.94	686	17,146	17,831	70.9	1.48	93.9	20,138
% Reduced	24%	11%	2%	32%	2%	34%	—	1%	29%	—	2%	8%	2%	2%	8%	9%	—	3%

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639
Area	38.6	158	1.82	217	0.01	0.39	—	0.39	0.29	—	0.29	—	892	892	0.04	0.01	—	895

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	189	302	77.7	722	0.89	1.36	60.0	61.3	1.22	15.2	16.4	4,510	141,857	146,366	468	11.8	702	162,290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	143	258	80.2	497	0.84	0.97	60.0	61.0	0.93	15.2	16.2	4,510	136,988	141,497	469	12.0	518	157,303
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	80.7	77.2	50.0	295	0.49	0.44	39.9	40.3	0.41	10.1	10.5	—	50,404	50,404	5.33	4.39	54.6	51,900
Area	26.4	147	1.25	149	0.01	0.26	—	0.26	0.20	—	0.20	—	611	611	0.03	0.01	—	613
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,980	6,883	8,863	204	4.90	—	15,418
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	0.75	6.53	0.01	0.04	0.00	0.04	0.04	0.00	0.04	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	110	227	53.3	469	0.54	0.79	39.9	40.7	0.70	10.1	10.8	4,510	105,321	109,831	466	9.84	567	124,983
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593
Area	4.83	26.8	0.23	27.1	< 0.005	0.05	—	0.05	0.04	—	0.04	—	101	101	< 0.005	< 0.005	—	101
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,202	7,202	0.69	0.08	—	7,244
Water	—	—	—	—	—	—	—	—	—	—	—	328	1,139	1,467	33.7	0.81	—	2,553
Waste	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	20.1	41.3	9.72	85.5	0.10	0.14	7.28	7.42	0.13	1.85	1.97	747	17,437	18,184	77.2	1.63	93.9	20,692

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,633	43,633	4.16	0.50	—	43,887
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622

Stationar	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	151	266	75.8	505	0.88	0.97	60.0	61.0	0.93	15.2	16.2	4,141	139,857	143,999	431	10.9	702	158,702
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,500	43,500	4.15	0.50	—	43,754
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	20.6	18.7	5.50	47.7	0.09	0.28	0.00	0.28	0.28	0.00	0.28	0.00	9,570	9,570	0.38	0.07	0.00	9,602
Total	143	258	80.2	497	0.84	0.97	60.0	61.0	0.93	15.2	16.2	4,141	135,748	139,889	431	11.0	518	154,477
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	80.7	77.2	50.0	295	0.49	0.44	39.9	40.3	0.41	10.1	10.5	—	50,404	50,404	5.33	4.39	54.6	51,900
Area	—	122	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	43,591	43,591	4.16	0.50	—	43,845
Water	—	—	—	—	—	—	—	—	—	—	—	1,612	5,642	7,255	166	3.99	—	12,591
Waste	—	—	—	—	—	—	—	—	—	—	—	2,529	0.00	2,529	253	0.00	—	8,848
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	513	513
Off-Road	0.25	0.25	1.28	18.3	0.02	0.05	—	0.05	0.05	—	0.05	—	2,613	2,613	0.11	0.02	—	2,622
Stationary	2.82	2.56	0.75	6.53	0.01	0.04	0.00	0.04	0.04	0.00	0.04	0.00	1,311	1,311	0.05	0.01	0.00	1,315
Total	83.8	202	52.0	320	0.53	0.52	39.9	40.4	0.50	10.1	10.6	4,141	103,561	107,702	428	8.92	567	121,635
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593

Area	—	22.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,217	7,217	0.69	0.08	—	7,259
Water	—	—	—	—	—	—	—	—	—	—	—	—	267	934	1,201	27.5	0.66	—	2,085
Waste	—	—	—	—	—	—	—	—	—	—	—	—	419	0.00	419	41.8	0.00	—	1,465
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84.9	84.9
Off-Road	0.05	0.05	0.23	3.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	433	433	0.02	< 0.005	—	434
Stationary	0.51	0.47	0.14	1.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	217	217	0.01	< 0.005	0.00	218
Total	15.3	36.9	9.49	58.4	0.10	0.10	7.28	7.37	0.09	1.85	1.94	686	17,146	17,831	70.9	1.48	93.9	20,138

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	55.1	53.3	13.4	201	0.30	0.17	27.5	27.6	0.16	6.93	7.09	—	29,862	29,862	2.89	1.68	73.0	30,507
Regional Shopping Center	38.6	37.4	14.0	107	0.16	0.14	13.1	13.3	0.13	3.33	3.46	—	16,697	16,697	1.85	1.34	42.5	17,186
Unrefrigerated Warehouse-No Rail	12.2	11.8	2.97	44.5	0.07	0.04	6.09	6.13	0.04	1.54	1.57	—	6,624	6,624	0.64	0.37	16.2	6,767

Refrigerated	1.87	1.81	0.45	6.81	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	1,013	1,013	0.10	0.06	2.48	1,035
City Park	19.8	19.1	7.75	61.7	0.11	0.09	8.78	8.87	0.08	2.23	2.31	—	10,815	10,815	0.99	0.76	28.4	11,096
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.47	0.91	20.1	11.9	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,795	8,795	0.49	1.35	17.8	9,229
User Defined Commercial	0.77	0.48	10.5	6.22	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,593	4,593	0.26	0.71	9.30	4,819
Total	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	52.4	50.5	14.5	195	0.27	0.17	27.5	27.6	0.16	6.93	7.09	—	27,815	27,815	3.22	1.76	1.89	28,420
Regional Shopping Center	36.1	34.8	14.8	107	0.15	0.14	13.1	13.3	0.13	3.33	3.46	—	15,825	15,825	2.04	1.39	1.10	16,290
Unrefrigerated Warehouse-No Rail	11.6	11.2	3.21	43.2	0.06	0.04	6.09	6.13	0.04	1.54	1.57	—	6,170	6,170	0.71	0.39	0.42	6,304
Refrigerated Warehouse-No Rail	1.78	1.71	0.49	6.60	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	944	944	0.11	0.06	0.06	964
City Park	18.5	17.7	8.25	60.1	0.10	0.09	8.78	8.87	0.08	2.23	2.31	—	10,226	10,226	1.08	0.79	0.74	10,489
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	1.37	0.82	21.1	12.3	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,831	8,831	0.49	1.36	0.46	9,249
User Defined Commercial	0.72	0.43	11.0	6.41	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,612	4,612	0.26	0.71	0.24	4,830
Total	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	6.96	6.70	1.98	26.8	0.04	0.02	3.67	3.69	0.02	0.93	0.95	—	3,428	3,428	0.39	0.22	3.84	3,506
Regional Shopping Center	4.00	3.85	1.64	12.1	0.02	0.02	1.38	1.39	0.01	0.35	0.36	—	1,543	1,543	0.21	0.14	1.76	1,591
Unrefrigerated Warehouse-No Rail	1.53	1.47	0.44	5.90	0.01	0.01	0.81	0.81	< 0.005	0.20	0.21	—	755	755	0.09	0.05	0.85	772
Refrigerated Warehouse-No Rail	0.23	0.23	0.07	0.90	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	115	115	0.01	0.01	0.13	118
City Park	1.73	1.66	0.78	5.80	0.01	0.01	0.82	0.83	0.01	0.21	0.22	—	884	884	0.09	0.07	1.05	908
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.19	0.11	2.75	1.60	0.01	0.02	0.31	0.33	0.02	0.08	0.10	—	1,059	1,059	0.06	0.16	0.92	1,110
User Defined Commercial	0.10	0.06	1.46	0.85	0.01	0.01	0.17	0.17	0.01	0.04	0.05	—	561	561	0.03	0.09	0.49	588
Total	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	55.1	53.3	13.4	201	0.30	0.17	27.5	27.6	0.16	6.93	7.09	—	29,862	29,862	2.89	1.68	73.0	30,507
Regional Shopping Center	38.6	37.4	14.0	107	0.16	0.14	13.1	13.3	0.13	3.33	3.46	—	16,697	16,697	1.85	1.34	42.5	17,186
Unrefrigerated Warehouse-No Rail	12.2	11.8	2.97	44.5	0.07	0.04	6.09	6.13	0.04	1.54	1.57	—	6,624	6,624	0.64	0.37	16.2	6,767
Refrigerated Warehouse-No Rail	1.87	1.81	0.45	6.81	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	1,013	1,013	0.10	0.06	2.48	1,035
City Park	19.8	19.1	7.75	61.7	0.11	0.09	8.78	8.87	0.08	2.23	2.31	—	10,815	10,815	0.99	0.76	28.4	11,096
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.47	0.91	20.1	11.9	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,795	8,795	0.49	1.35	17.8	9,229
User Defined Commercial	0.77	0.48	10.5	6.22	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,593	4,593	0.26	0.71	9.30	4,819
Total	130	125	69.1	439	0.76	0.65	60.0	60.6	0.61	15.2	15.8	—	78,399	78,399	7.22	6.27	190	80,639

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	52.4	50.5	14.5	195	0.27	0.17	27.5	27.6	0.16	6.93	7.09	—	27,815	27,815	3.22	1.76	1.89	28,420
Regional Shopping Center	36.1	34.8	14.8	107	0.15	0.14	13.1	13.3	0.13	3.33	3.46	—	15,825	15,825	2.04	1.39	1.10	16,290
Unrefrigerated Warehouse-No Rail	11.6	11.2	3.21	43.2	0.06	0.04	6.09	6.13	0.04	1.54	1.57	—	6,170	6,170	0.71	0.39	0.42	6,304
Refrigerated Warehouse-No Rail	1.78	1.71	0.49	6.60	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	944	944	0.11	0.06	0.06	964
City Park	18.5	17.7	8.25	60.1	0.10	0.09	8.78	8.87	0.08	2.23	2.31	—	10,226	10,226	1.08	0.79	0.74	10,489
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.37	0.82	21.1	12.3	0.08	0.13	2.37	2.50	0.13	0.63	0.76	—	8,831	8,831	0.49	1.36	0.46	9,249
User Defined Commercial	0.72	0.43	11.0	6.41	0.04	0.07	1.24	1.31	0.07	0.33	0.40	—	4,612	4,612	0.26	0.71	0.24	4,830
Total	122	117	73.4	431	0.72	0.65	60.0	60.6	0.61	15.2	15.8	—	74,422	74,422	7.91	6.45	4.92	76,547
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	6.96	6.70	1.98	26.8	0.04	0.02	3.67	3.69	0.02	0.93	0.95	—	3,428	3,428	0.39	0.22	3.84	3,506
Regional Shopping Center	4.00	3.85	1.64	12.1	0.02	0.02	1.38	1.39	0.01	0.35	0.36	—	1,543	1,543	0.21	0.14	1.76	1,591

Unrefrigerated	1.53	1.47	0.44	5.90	0.01	0.01	0.81	0.81	< 0.005	0.20	0.21	—	755	755	0.09	0.05	0.85	772
Refrigerated Warehouse-No Rail	0.23	0.23	0.07	0.90	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	115	115	0.01	0.01	0.13	118
City Park	1.73	1.66	0.78	5.80	0.01	0.01	0.82	0.83	0.01	0.21	0.22	—	884	884	0.09	0.07	1.05	908
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.19	0.11	2.75	1.60	0.01	0.02	0.31	0.33	0.02	0.08	0.10	—	1,059	1,059	0.06	0.16	0.92	1,110
User Defined Commercial	0.10	0.06	1.46	0.85	0.01	0.01	0.17	0.17	0.01	0.04	0.05	—	561	561	0.03	0.09	0.49	588
Total	14.7	14.1	9.12	53.9	0.09	0.08	7.28	7.36	0.07	1.85	1.92	—	8,345	8,345	0.88	0.73	9.04	8,593

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	16,029	16,029	1.53	0.19	—	16,123
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,851	1,851	0.18	0.02	—	1,862

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	39,439	3,202	2,906	10,600,672
Regional Shopping Center	6,354	12,303	8,990	2,766,960	8,604	18,529	13,539	3,915,225
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	8,749	718	287	2,333,258
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	1,338	109	44.0	356,814
City Park	2,145	5,550	6,202	1,171,975	4,290	11,101	12,403	2,343,951
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	2,701	221	6.13	716,053

User Defined Commercial	705	58.2	52.9	189,665	1,411	116	106	379,331

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Office Park	19,719	1,601	1,453	5,300,336	39,439	3,202	2,906	10,600,672
Regional Shopping Center	6,354	12,303	8,990	2,766,960	8,604	18,529	13,539	3,915,225
Unrefrigerated Warehouse-No Rail	4,374	359	144	1,166,629	8,749	718	287	2,333,258
Refrigerated Warehouse-No Rail	669	54.5	22.0	178,407	1,338	109	44.0	356,814
City Park	2,145	5,550	6,202	1,171,975	4,290	11,101	12,403	2,343,951
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1,351	110	3.06	358,026	2,701	221	6.13	716,053
User Defined Commercial	705	58.2	52.9	189,665	1,411	116	106	379,331

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

APPENDIX 5.5:

TRU EMISSION CALCULATIONS

TRU Calculator - Without Mitigation

2028	Year

Transport Refrigeration Unit - Instate Trailer

102	No. of Units
4	Hours/day

Total Two-Way TRU Trips per day
376

Transport Refrigeration Unit - Instate Truck

86	No. of Units
4	Hours/day

	Activity (hrs/year)
Transport Refrigeration Unit - Instate Trailer	3,434,692
Transport Refrigeration Unit - Instate Truck	140,325

Unit		Emission Factor						
		ROG	NO$_X$	CO	SOX	PM10	PM2.5	CO$_2$
Transport Refrigeration Unit - Instate Trailer	Emissions (tons/day)	3.94E-01	3.61E-01	5.05E-02	0.00E+00	5.95E-03	5.48E-03	7.44E+01
	Emissions (lbs/hr)	8.37E-02	7.66E-02	1.07E-02	0.00E+00	1.27E-03	1.16E-03	1.58E+01
Transport Refrigeration Unit - Instate Truck	Emissions (tons/day)	1.18E-02	1.50E-02	1.29E-03	0.00E+00	7.70E-04	7.08E-04	2.39E+00
	Emissions (lbs/hr)	6.15E-02	7.78E-02	6.69E-03	0.00E+00	4.00E-03	3.68E-03	1.24E+01

Unit	Emissions (lbs/day)						MT/yr
	ROG	NO$_X$	CO	SOX	PM10	PM2.5	CO$_2$
Transport Refrigeration Unit - Instate Trailer	34.14	31.26	4.38	0.00	0.52	0.48	1,068.59
Transport Refrigeration Unit - Instate Truck	21.16	26.77	2.30	0.00	1.38	1.27	708.12
Total	55.30	58.03	6.68	0.00	1.89	1.74	1,776.71

TRU Calculator - With Mitigation

2028	Year

Transport Refrigeration Unit - Instate Trailer

102	No. of Units
2.5	Hours/day

Total Two-Way TRU Trips per day
376

Transport Refrigeration Unit - Instate Truck

86	No. of Units
2.5	Hours/day

	Activity (hrs/year)
Transport Refrigeration Unit - Instate Trailer	3,434,692
Transport Refrigeration Unit - Instate Truck	140,325

Unit		Emission Factor						
		ROG	NO$_X$	CO	SOX	PM10	PM2.5	CO$_2$
Transport Refrigeration Unit - Instate Trailer	Emissions (tons/day)	3.94E-01	3.61E-01	5.05E-02	0.00E+00	5.95E-03	5.48E-03	7.44E+01
	Emissions (lbs/hr)	8.37E-02	7.66E-02	1.07E-02	0.00E+00	1.27E-03	1.16E-03	1.58E+01
Transport Refrigeration Unit - Instate Truck	Emissions (tons/day)	1.18E-02	1.50E-02	1.29E-03	0.00E+00	7.70E-04	7.08E-04	2.39E+00
	Emissions (lbs/hr)	6.15E-02	7.78E-02	6.69E-03	0.00E+00	4.00E-03	3.68E-03	1.24E+01

Unit	Emissions (lbs/day)						MT/yr
	ROG	NO$_X$	CO	SOX	PM10	PM2.5	CO$_2$
Transport Refrigeration Unit - Instate Trailer	21.34	19.54	2.74	0.00	0.32	0.30	667.87
Transport Refrigeration Unit - Instate Truck	13.22	16.73	1.44	0.00	0.86	0.79	442.57
Total	34.56	36.27	4.17	0.00	1.18	1.09	1,110.44

Model Output: OFFROAD2021 (v1.0.5) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2028
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
Riverside (S	2028	Transport Refrigeration Unit - Instate Genset	Aggregate	Aggregate	Diesel	0.001552	0.015852	0.002235	0.001724	0.020066	3.399957	0.000388	0.000357	5337.39	7.62213E-08	110589.61	228773.79	292.79	0
Riverside (S	2028	Transport Refrigeration Unit - Instate Trailer	Aggregate	Aggregate	Diesel	0.045407	0.393741	0.065389	0.050469	0.360515	74.43173	0.005953	0.005478	116848.7	1.66979E-06	2421023.89	3434692.46	1915.12	0
Riverside (S	2028	Transport Refrigeration Unit - Instate Truck	Aggregate	Aggregate	Diesel	0.001157	0.011824	0.001668	0.001287	0.01496	2.390017	0.00077	0.000708	3751.96	5.35761E-08	77739.54	140324.73	412.63	0
Riverside (S	2028	Transport Refrigeration Unit - Out-Of-State Genset	Aggregate	Aggregate	Diesel	0.001241	0.01267	0.001787	0.001379	0.016427	2.714698	0.000351	0.000322	4261.61	6.08676E-08	88300.36	183361.29	1478.56727	0
Riverside (S	2028	Transport Refrigeration Unit - Out-Of-State Trailer	Aggregate	Aggregate	Diesel	0.026058	0.227719	0.037519	0.028928	0.22491	41.29823	0.00451	0.004149	64833.12	9.26018E-07	1343298.03	1981989.98	7286.53	0
Riverside (S	2028	Transport Refrigeration Unit - Railcar TRU	Aggregate	Aggregate	Diesel	0.000933	0.009527	0.001344	0.001037	0.009727	1.61236	0.000192	0.000176	2531.08	3.61508E-08	52444.87	78287.55	239.09	0

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APPENDIX 5.6:

AERMOD LST MODELING OUTPUTS – CONSTRUCTION

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons CO\14064 Cons
CO.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons CO.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME       471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME       471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME       471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME       471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME       471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME       471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME       472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME       472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME       471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME       471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME       471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME       471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME       471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME       471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME       471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME       471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME       471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME       471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME       472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME       471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME       471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME       471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME       471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME       471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME       470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME       471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME       471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME       471389.172  3751619.077      534.860
```

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       LOCATION VOL29          VOLUME      471577.888   3751616.698       529.000
       LOCATION VOL30          VOLUME      471724.580   3751620.663       533.750
       LOCATION VOL31          VOLUME      471941.049   3751865.677       534.600
       LOCATION VOL32          VOLUME      471795.151   3751684.890       537.260
       LOCATION VOL33          VOLUME      471577.888   3751434.325       531.060
       LOCATION VOL34          VOLUME      471389.965   3751431.946       537.260
       LOCATION VOL35          VOLUME      471202.041   3751467.628       526.830
       LOCATION VOL36          VOLUME      471065.657   3751504.895       521.960
       LOCATION VOL37          VOLUME      471656.388   3751514.411       529.480
       LOCATION VOL38          VOLUME      471522.384   3751324.108       529.000
       LOCATION VOL39          VOLUME      471332.874   3751322.522       529.530
       LOCATION VOL40          VOLUME      471282.920   3751321.729       528.170
       LOCATION VOL41          VOLUME      471233.758   3751388.335       528.470
       LOCATION VOL42          VOLUME      472135.642   3751845.064       525.790
       LOCATION VOL43          VOLUME      472323.361   3751843.460       510.520
       LOCATION VOL44          VOLUME      472512.544   3751852.284       501.450
       LOCATION VOL45          VOLUME      472698.022   3751875.469       491.390
       LOCATION VOL46          VOLUME      472880.772   3751928.657       487.900
       LOCATION VOL47          VOLUME      472608.011   3752044.580       498.520
       LOCATION VOL48          VOLUME      471084.506   3752407.221       506.810
** Source Parameters **
       SRCPARAM VOL1           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL2           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL3           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL4           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL5           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL6           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL7           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL8           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL9           0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL10          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL11          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL12          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL13          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL14          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL15          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL16          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL17          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL18          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL19          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL20          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL21          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL22          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL23          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL24          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL25          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL26          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL27          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL28          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL29          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL30          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL31          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL32          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL33          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL34          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL35          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL36          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL37          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL38          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL39          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL40          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL41          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL42          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL43          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL44          0.0839460879     5.000      43.702     1.400
       SRCPARAM VOL45          0.0839460879     5.000      43.702     1.400
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   SRCPARAM VOL46          0.0839460879     5.000     43.702      1.400
   SRCPARAM VOL47          0.0839460879     5.000     43.702      1.400
   SRCPARAM VOL48          0.0839460879     5.000     43.702      1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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     EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL5          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL6          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL12         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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        EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL14         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL15         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL16         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL17         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
        EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL18          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL21          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT VOL26          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL27          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL27          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL28          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL28          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL29          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL30          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL31          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL32          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL33          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL34          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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      EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL36         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL37         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL38         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL39         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL45         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL46         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
    EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
    INCLUDED "14064 Cons CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
    RECTABLE 8 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST "14064 CONS CO.AD\01H1GALL.PLT" 31
    PLOTFILE 8 ALL 1ST "14064 CONS CO.AD\08H1GALL.PLT" 32
    SUMMFILE "14064 Cons CO.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of           0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
            ***   NONE   ***



    ********   WARNING MESSAGES   ********
 ME W186     881     MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881     MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ************************************
 *** SETUP Finishes Successfully ***
 ************************************

▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
```

```
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   48 Source(s),
       for Total of    1 Urban Area(s):
   Urban Population =  2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO


**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR


**This Run Includes:     48 Source(s);       1 Source Group(s); and     233 Receptor(s)


              with:       0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
               and:      48 VOLUME source(s)
               and:       0 AREA type source(s)
               and:       0 LINE source(s)
               and:       0 RLINE/RLINEXT source(s)
               and:       0 OPENPIT source(s)
               and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                              ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3
```

```
**Approximate Storage Requirements of Model =      3.6 MB of RAM.


**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Cons
CO.err
**File for Summary of Results:   14064 Cons
CO.sum
```
▒▒ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
```
Campus\14064 Ops\140 ***        10/26/23
*** AERMET - VERSION  16216 ***
***                                                         ***         09:36:29


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```
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) CATS. VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0 HRDOW	0.83946E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0 HRDOW	0.83946E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0 HRDOW	0.83946E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0 HRDOW	0.83946E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0 HRDOW	0.83946E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0 HRDOW	0.83946E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0 HRDOW	0.83946E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0 HRDOW	0.83946E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0 HRDOW	0.83946E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0 HRDOW	0.83946E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0 HRDOW	0.83946E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0 HRDOW	0.83946E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0 HRDOW	0.83946E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0 HRDOW	0.83946E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0 HRDOW	0.83946E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0 HRDOW	0.83946E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0 HRDOW	0.83946E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18	0	0.83946E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40

```
YES    HRDOW
VOL19              0   0.83946E-01   472002.9 3751970.3   527.9    5.00    43.70    1.40
YES    HRDOW
VOL20              0   0.83946E-01   471845.1 3751780.0   538.8    5.00    43.70    1.40
YES    HRDOW
VOL21              0   0.83946E-01   471657.2 3751803.8   536.0    5.00    43.70    1.40
YES    HRDOW
VOL22              0   0.83946E-01   471468.5 3751806.2   528.3    5.00    43.70    1.40
YES    HRDOW
VOL23              0   0.83946E-01   471280.5 3751807.0   525.0    5.00    43.70    1.40
YES    HRDOW
VOL24              0   0.83946E-01   471093.4 3751841.9   515.6    5.00    43.70    1.40
YES    HRDOW
VOL25              0   0.83946E-01   470978.4 3751841.9   518.1    5.00    43.70    1.40
YES    HRDOW
VOL26              0   0.83946E-01   471014.1 3751654.8   520.4    5.00    43.70    1.40
YES    HRDOW
VOL27              0   0.83946E-01   471201.2 3751654.8   525.1    5.00    43.70    1.40
YES    HRDOW
VOL28              0   0.83946E-01   471389.2 3751619.1   534.9    5.00    43.70    1.40
YES    HRDOW
VOL29              0   0.83946E-01   471577.9 3751616.7   529.0    5.00    43.70    1.40
YES    HRDOW
VOL30              0   0.83946E-01   471724.6 3751620.7   533.8    5.00    43.70    1.40
YES    HRDOW
VOL31              0   0.83946E-01   471941.0 3751865.7   534.6    5.00    43.70    1.40
YES    HRDOW
VOL32              0   0.83946E-01   471795.2 3751684.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL33              0   0.83946E-01   471577.9 3751434.3   531.1    5.00    43.70    1.40
YES    HRDOW
VOL34              0   0.83946E-01   471390.0 3751431.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL35              0   0.83946E-01   471202.0 3751467.6   526.8    5.00    43.70    1.40
YES    HRDOW
VOL36              0   0.83946E-01   471065.7 3751504.9   522.0    5.00    43.70    1.40
YES    HRDOW
VOL37              0   0.83946E-01   471656.4 3751514.4   529.5    5.00    43.70    1.40
YES    HRDOW
VOL38              0   0.83946E-01   471522.4 3751324.1   529.0    5.00    43.70    1.40
YES    HRDOW
VOL39              0   0.83946E-01   471332.9 3751322.5   529.5    5.00    43.70    1.40
YES    HRDOW
VOL40              0   0.83946E-01   471282.9 3751321.7   528.2    5.00    43.70    1.40
YES    HRDOW
```

 ▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN   EMISSION RATE
  SOURCE   PART.   (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE   SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - - -


```
VOL41              0   0.83946E-01   471233.8 3751388.3   528.5    5.00    43.70    1.40
```

```
YES   HRDOW
VOL42          0   0.83946E-01  472135.6 3751845.1   525.8    5.00    43.70    1.40
YES   HRDOW
VOL43          0   0.83946E-01  472323.4 3751843.5   510.5    5.00    43.70    1.40
YES   HRDOW
VOL44          0   0.83946E-01  472512.5 3751852.3   501.4    5.00    43.70    1.40
YES   HRDOW
VOL45          0   0.83946E-01  472698.0 3751875.5   491.4    5.00    43.70    1.40
YES   HRDOW
VOL46          0   0.83946E-01  472880.8 3751928.7   487.9    5.00    43.70    1.40
YES   HRDOW
VOL47          0   0.83946E-01  472608.0 3752044.6   498.5    5.00    43.70    1.40
YES   HRDOW
VOL48          0   0.83946E-01  471084.5 3752407.2   506.8    5.00    43.70    1.40
YES   HRDOW
```

🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

  SRCGROUP ID                                        SOURCE IDs
  -----------                                        ----------


   ALL       VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
   VOL7      , VOL8       ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL42       , VOL43       , VOL44       , VOL45       , VOL46       ,
             VOL47       , VOL48       ,
```

🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                                      *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID  URBAN POP                                SOURCE IDs
  --------  ---------                                ----------


            2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
            VOL6        , VOL7        ,
   VOL8        ,
```

```
             VOL9          , VOL10         , VOL11         , VOL12         , VOL13         , VOL14         ,
             VOL15         , VOL16         ,

             VOL17         , VOL18         , VOL19         , VOL20         , VOL21         , VOL22         ,
             VOL23         , VOL24         ,

             VOL25         , VOL26         , VOL27         , VOL28         , VOL29         , VOL30         ,
             VOL31         , VOL32         ,

             VOL33         , VOL34         , VOL35         , VOL36         , VOL37         , VOL38         ,
             VOL39         , VOL40         ,

             VOL41         , VOL42         , VOL43         , VOL44         , VOL45         , VOL46         ,
             VOL47         , VOL48         ,
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE   7
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = VOL3   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                        PAGE   9
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL4          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                 PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL5          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

```
         .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL6   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campaign\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campaign\14064 Ops\140 ***         10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        09:36:29


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL9        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL10       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL11       ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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                 PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL12       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL15       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL16       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▒▒ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

```
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

`FF` *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

`FF` *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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    *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/26/23
 *** AERMET - VERSION  16216 ***
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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .000D0E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

```
▓▓ *** AERMOD - VERSION 22112   ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                                    ***       09:36:29
```

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL31        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

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▓▓ *** AERMOD - VERSION 22112   ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                                    ***       09:36:29
```

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
```

```
                    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

🔣 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```

🔣 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***      09:36:29


                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

                   PAGE 40
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🏁 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🏁 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***

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                 PAGE  43
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 *** AERMET - VERSION  16216 ***
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                 PAGE  44
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL40       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL41       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                 PAGE 48
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                       (HRDOW) *

 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

�센 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                    PAGE 54
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                                *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                             (METERS)


   ( 472283.7, 3752641.0,     492.6,     492.6,      2.0);         ( 472482.2, 3752398.0,
     499.3,      499.3,        2.0);
   ( 472478.0, 3752183.1,     505.1,     505.1,      2.0);         ( 472148.1, 3752531.5,
     495.2,      502.0,        2.0);
   ( 472052.1, 3752531.2,     499.4,     512.0,      2.0);         ( 471975.5, 3752531.2,
     500.5,      514.0,        2.0);
   ( 471896.1, 3752530.9,     503.4,     513.0,      2.0);         ( 471840.8, 3752529.9,
     503.4,      513.0,        2.0);
   ( 471816.6, 3752527.1,     500.6,     513.0,      2.0);         ( 471736.8, 3752557.9,
     501.5,      501.5,        2.0);
   ( 471696.6, 3752558.9,     500.0,     500.0,      2.0);         ( 471627.3, 3752556.2,
     501.9,      512.0,        2.0);
   ( 471584.6, 3752556.8,     504.5,     507.0,      2.0);         ( 471560.0, 3752556.2,
     504.6,      507.0,        2.0);
   ( 471534.3, 3752554.9,     503.2,     509.0,      2.0);         ( 471514.9, 3752554.9,
     502.2,      519.0,        2.0);
   ( 471486.8, 3752555.7,     503.1,     503.1,      2.0);         ( 471465.7, 3752555.4,
     503.1,      503.1,        2.0);
   ( 471442.2, 3752555.0,     501.3,     505.0,      2.0);         ( 471419.7, 3752552.5,
     500.3,      505.0,        2.0);
   ( 471394.2, 3752552.9,     501.4,     501.4,      2.0);         ( 471363.4, 3752552.5,
     503.5,      503.5,        2.0);
   ( 471332.7, 3752553.3,     505.8,     505.8,      2.0);         ( 471307.6, 3752552.9,
     506.9,      506.9,        2.0);
   ( 471284.0, 3752552.7,     506.2,     506.2,      2.0);         ( 471262.0, 3752552.7,
     505.7,      505.7,        2.0);
   ( 471241.9, 3752552.7,     505.6,     505.6,      2.0);         ( 471223.1, 3752552.9,
     505.9,      505.9,        2.0);
   ( 471205.9, 3752552.9,     506.2,     506.2,      2.0);         ( 471173.2, 3752552.4,
     506.5,      506.5,        2.0);
   ( 471135.7, 3752552.5,     506.1,     506.1,      2.0);         ( 471093.2, 3752551.5,
     505.4,      505.4,        2.0);
   ( 471059.4, 3752551.7,     504.7,     504.7,      2.0);         ( 471020.5, 3752551.2,
     503.1,      503.1,        2.0);
   ( 470981.0, 3752563.6,     502.1,     502.1,      2.0);         ( 470980.4, 3752552.2,
     502.5,      502.5,        2.0);
   ( 470980.1, 3752535.6,     503.0,     503.0,      2.0);         ( 470979.9, 3752517.2,
     503.7,      503.7,        2.0);
   ( 470980.1, 3752499.8,     504.0,     504.0,      2.0);         ( 470980.2, 3752479.8,
     504.0,      504.0,        2.0);
   ( 470980.4, 3752459.4,     504.6,     504.6,      2.0);         ( 470980.2, 3752433.2,
     505.4,      505.4,        2.0);
   ( 470980.1, 3752404.0,     506.0,     506.0,      2.0);         ( 470927.1, 3752402.7,
     504.9,      504.9,        2.0);
   ( 470907.9, 3752402.7,     503.1,     503.1,      2.0);         ( 470887.3, 3752402.7,
     500.9,      505.0,        2.0);
```

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( 470869.7, 3752402.0,      500.7,     500.7,      2.0);          ( 470849.6, 3752401.9,
500.3,      500.3,      2.0);
( 470829.4, 3752402.2,      500.0,     500.0,      2.0);          ( 470811.6, 3752402.2,
499.7,      499.7,      2.0);
( 470791.5, 3752402.5,      499.2,     499.2,      2.0);          ( 470773.6, 3752401.9,
498.6,      498.6,      2.0);
( 470749.2, 3752402.2,      497.8,     497.8,      2.0);          ( 470727.7, 3752391.7,
497.8,      497.8,      2.0);
( 470733.0, 3752339.0,      499.9,     499.9,      2.0);          ( 470733.7, 3752320.5,
500.2,      500.2,      2.0);
( 470734.2, 3752291.0,      500.8,     500.8,      2.0);          ( 470733.2, 3752265.8,
500.8,      500.8,      2.0);
( 470732.9, 3752218.8,      501.2,     501.2,      2.0);          ( 470732.5, 3752182.1,
501.8,      501.8,      2.0);
( 470732.4, 3752145.3,      503.0,     503.0,      2.0);          ( 470692.4, 3752144.8,
502.5,      502.5,      2.0);
( 470670.1, 3752144.5,      502.1,     502.1,      2.0);          ( 470651.7, 3752144.3,
502.0,      502.0,      2.0);
( 470633.5, 3752144.1,      501.5,     501.5,      2.0);          ( 470615.5, 3752144.0,
500.9,      500.9,      2.0);
( 470596.0, 3752143.3,      500.2,     500.2,      2.0);          ( 470577.0, 3752143.5,
500.0,      500.0,      2.0);
( 470553.6, 3752143.5,      499.7,     499.7,      2.0);          ( 470528.6, 3752142.6,
498.8,      498.8,      2.0);
( 470508.0, 3752142.8,      497.6,     497.6,      2.0);          ( 470485.6, 3752142.5,
496.3,      496.3,      2.0);
( 470471.6, 3752131.6,      496.1,     496.1,      2.0);          ( 470471.6, 3752109.2,
497.3,      497.3,      2.0);
( 470471.3, 3752085.2,      498.1,     498.1,      2.0);          ( 470471.5, 3752037.7,
499.7,      499.7,      2.0);
( 470471.7, 3752013.0,      500.0,     500.0,      2.0);          ( 470470.9, 3751987.2,
500.1,      500.1,      2.0);
( 470470.9, 3751965.7,      500.1,     500.1,      2.0);          ( 470470.8, 3751944.4,
500.1,      500.1,      2.0);
( 470470.6, 3751924.3,      499.6,     499.6,      2.0);          ( 470470.5, 3751905.9,
499.0,      499.0,      2.0);
( 470470.9, 3751884.1,      499.1,     499.1,      2.0);          ( 470470.6, 3751864.0,
498.6,      498.6,      2.0);
( 470470.3, 3751844.0,      497.9,     497.9,      2.0);          ( 470470.2, 3751824.5,
496.6,      496.6,      2.0);
( 470470.3, 3751805.8,      495.7,     499.0,      2.0);          ( 470470.3, 3751788.0,
495.1,      502.0,      2.0);
( 470470.3, 3751761.2,      497.6,     497.6,      2.0);          ( 470471.0, 3751741.9,
499.5,      499.5,      2.0);
```

                           *** DISCRETE CARTESIAN RECEPTORS ***
                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
( 470470.0, 3751722.8,      501.4,     501.4,      2.0);          ( 470470.2, 3751703.4,
503.3,      503.3,      2.0);
( 470470.2, 3751683.8,      504.9,     504.9,      2.0);          ( 470470.3, 3751664.3,
506.2,      506.2,      2.0);
( 470470.3, 3751642.4,      507.6,     507.6,      2.0);          ( 470470.5, 3751621.8,
508.5,      508.5,      2.0);
( 470470.2, 3751599.8,      509.0,     509.0,      2.0);          ( 470470.6, 3751578.8,
509.1,      509.1,      2.0);
( 470469.6, 3751555.9,      507.6,     507.6,      2.0);          ( 470470.0, 3751512.5,
504.8,      512.0,      2.0);
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(470468.6, 3751414.6,   501.8,   513.0,   2.0);   (470469.8, 3751385.2,
507.1,   513.0,   2.0);
(470468.6, 3751358.9,   509.6,   509.6,   2.0);   (470462.9, 3751325.6,
511.9,   511.9,   2.0);
(470462.0, 3751310.6,   512.6,   512.6,   2.0);   (470462.6, 3751296.6,
512.4,   512.4,   2.0);
(470462.6, 3751283.3,   512.0,   512.0,   2.0);   (470462.6, 3751269.9,
511.1,   511.1,   2.0);
(470462.9, 3751254.3,   509.6,   512.0,   2.0);   (470462.0, 3751240.7,
508.9,   508.9,   2.0);
(470463.2, 3751227.6,   509.4,   509.4,   2.0);   (470756.4, 3751290.6,
507.7,   525.0,   2.0);
(470797.7, 3751268.3,   507.7,   525.0,   2.0);   (470891.2, 3751226.4,
512.0,   512.0,   2.0);
(470940.8, 3751191.8,   512.1,   512.1,   2.0);   (471000.6, 3750923.6,
523.8,   523.8,   2.0);
(471029.3, 3750923.6,   523.7,   523.7,   2.0);   (471056.3, 3750923.9,
524.2,   542.0,   2.0);
(471077.9, 3750924.4,   524.8,   543.0,   2.0);   (471097.6, 3750924.4,
525.7,   543.0,   2.0);
(471118.2, 3750925.0,   528.0,   543.0,   2.0);   (471139.0, 3750927.4,
529.8,   543.0,   2.0);
(471160.1, 3750928.8,   530.8,   543.0,   2.0);   (471181.1, 3750931.5,
532.3,   543.0,   2.0);
(471201.7, 3750930.9,   533.3,   543.0,   2.0);   (471222.5, 3750931.5,
533.7,   543.0,   2.0);
(471244.1, 3750931.2,   534.8,   543.0,   2.0);   (471264.4, 3750931.7,
535.7,   538.0,   2.0);
(471284.4, 3750931.7,   536.5,   536.5,   2.0);   (471305.8, 3750931.7,
536.5,   536.5,   2.0);
(471324.7, 3750930.9,   535.8,   535.8,   2.0);   (471343.0, 3750930.1,
534.9,   534.9,   2.0);
(471363.9, 3750929.0,   534.7,   534.7,   2.0);   (471382.0, 3750928.8,
534.8,   534.8,   2.0);
(471400.9, 3750928.2,   535.0,   535.0,   2.0);   (471421.1, 3750928.0,
535.4,   535.4,   2.0);
(471440.6, 3750928.1,   535.6,   535.6,   2.0);   (471461.8, 3750927.4,
535.7,   535.7,   2.0);
(471479.8, 3750927.9,   535.9,   535.9,   2.0);   (471499.7, 3750927.6,
536.2,   536.2,   2.0);
(471519.3, 3750928.8,   536.6,   549.0,   2.0);   (471537.0, 3750929.6,
538.0,   549.0,   2.0);
(471556.8, 3750930.9,   539.6,   549.0,   2.0);   (471580.7, 3750934.1,
541.7,   549.0,   2.0);
(471624.0, 3750940.2,   545.0,   549.0,   2.0);   (471795.9, 3750950.1,
548.4,   548.4,   2.0);
(471796.3, 3750967.9,   547.3,   547.3,   2.0);   (471796.7, 3750987.2,
545.3,   547.0,   2.0);
(471797.5, 3751006.8,   542.7,   549.0,   2.0);   (471796.7, 3751025.3,
542.0,   547.0,   2.0);
(471795.9, 3751046.4,   541.1,   541.1,   2.0);   (471796.7, 3751073.0,
540.1,   540.1,   2.0);
(471797.5, 3751143.8,   537.7,   537.7,   2.0);   (471833.0, 3751143.8,
537.0,   537.0,   2.0);
(471867.4, 3751144.0,   534.9,   534.9,   2.0);   (471891.0, 3751144.4,
532.9,   532.9,   2.0);
(471916.6, 3751144.2,   530.9,   530.9,   2.0);   (471939.5, 3751144.2,
529.4,   529.4,   2.0);
(471963.1, 3751144.4,   525.8,   535.0,   2.0);   (471984.2, 3751144.0,
524.4,   533.0,   2.0);
(471999.0, 3751163.4,   525.3,   536.0,   2.0);   (472000.2, 3751199.1,
530.8,   530.8,   2.0);
(471999.8, 3751230.6,   532.9,   532.9,   2.0);   (472000.4, 3751251.5,
534.3,   534.3,   2.0);
(472000.2, 3751281.1,   536.2,   536.2,   2.0);   (472002.0, 3751347.9,
537.0,   537.0,   2.0);

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( 472036.9, 3751348.5,     536.6,     536.6,     2.0);       ( 472063.1, 3751349.3,
536.5,     536.5,     2.0);
( 472084.6, 3751348.3,     535.8,     535.8,     2.0);       ( 472104.9, 3751348.7,
534.6,     534.6,     2.0);
( 472127.3, 3751348.5,     533.0,     533.0,     2.0);       ( 472150.8, 3751349.7,
531.4,     531.4,     2.0);
( 472171.5, 3751349.5,     530.3,     530.3,     2.0);       ( 472194.1, 3751349.1,
528.2,     531.0,     2.0);
( 472222.6, 3751348.7,     525.4,     536.0,     2.0);       ( 472247.8, 3751349.5,
523.2,     536.0,     2.0);
( 472269.7, 3751349.1,     520.9,     536.0,     2.0);       ( 472290.4, 3751350.3,
520.7,     535.0,     2.0);
( 472313.6, 3751350.5,     520.9,     532.0,     2.0);       ( 472333.8, 3751351.3,
520.6,     532.0,     2.0);
```

                              *** DISCRETE CARTESIAN RECEPTORS ***
                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
( 472354.8, 3751351.3,     518.5,     532.0,     2.0);       ( 472377.7, 3751351.1,
516.0,     532.0,     2.0);
( 472401.7, 3751351.1,     513.6,     533.0,     2.0);       ( 472425.5, 3751351.8,
511.8,     532.0,     2.0);
( 472445.7, 3751350.7,     511.1,     532.0,     2.0);       ( 472463.2, 3751350.9,
509.4,     532.0,     2.0);
( 472484.1, 3751350.9,     507.3,     532.0,     2.0);       ( 472503.9, 3751351.3,
506.3,     532.0,     2.0);
( 472523.8, 3751351.3,     506.2,     531.0,     2.0);       ( 472543.3, 3751351.3,
506.4,     506.4,     2.0);
( 472563.2, 3751352.2,     506.1,     506.1,     2.0);       ( 472582.6, 3751352.0,
505.8,     505.8,     2.0);
( 472601.3, 3751352.0,     505.3,     505.3,     2.0);       ( 472606.8, 3751367.3,
504.3,     504.3,     2.0);
( 472607.6, 3751396.4,     504.2,     504.2,     2.0);       ( 472608.5, 3751432.1,
505.0,     505.0,     2.0);
( 472608.9, 3751462.6,     504.4,     504.4,     2.0);       ( 472609.5, 3751497.1,
505.0,     505.0,     2.0);
( 472610.7, 3751553.8,     505.4,     505.4,     2.0);       ( 472666.0, 3751554.0,
501.3,     501.3,     2.0);
( 472690.4, 3751553.6,     499.8,     499.8,     2.0);       ( 472713.5, 3751554.3,
499.2,     499.2,     2.0);
( 472734.6, 3751554.0,     497.9,     497.9,     2.0);       ( 472759.5, 3751554.0,
496.2,     496.2,     2.0);
( 472781.8, 3751554.5,     494.9,     499.0,     2.0);       ( 472849.8, 3751556.1,
495.4,     495.4,     2.0);
( 472871.8, 3751556.1,     494.9,     494.9,     2.0);       ( 472895.2, 3751555.6,
494.2,     494.2,     2.0);
( 472922.6, 3751555.9,     493.8,     493.8,     2.0);       ( 473092.4, 3751802.3,
486.1,     486.1,     2.0);
( 473204.8, 3751856.8,     481.6,     481.6,     2.0);       ( 472991.2, 3752083.3,
484.1,     484.1,     2.0);
( 473295.1, 3752052.5,     478.7,     478.7,     2.0);       ( 473356.8, 3752050.3,
476.8,     476.8,     2.0);
( 473495.1, 3751996.6,     476.0,     476.0,     2.0);       ( 473486.5, 3751917.7,
475.8,     475.8,     2.0);
( 473392.6, 3752058.2,     475.9,     475.9,     2.0);       ( 473464.3, 3752082.6,
475.2,     475.2,     2.0);
( 473550.3, 3752087.6,     473.0,     473.0,     2.0);       ( 473584.7, 3752089.8,
473.0,     473.0,     2.0);
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  ( 472765.6, 3752474.1,      477.2,      495.0,      2.0);        ( 470432.2, 3750483.9,
  532.6,     532.6,      2.0);
  ( 469244.1, 3754182.8,      471.3,      485.0,      2.0);        ( 469596.8, 3750785.6,
  493.4,     493.4,      2.0);
  ( 470466.5, 3750530.3,      535.0,      535.0,      2.0);        ( 469319.3, 3749244.5,
  500.0,     500.0,      2.0);
  ( 469229.6, 3749502.2,      503.4,      503.4,      2.0);        ( 468465.4, 3749582.3,
  490.5,     490.5,      2.0);
  ( 471438.4, 3750129.8,      539.2,      539.2,      2.0);        ( 471657.5, 3749918.8,
  535.4,     535.4,      2.0);
  ( 471732.9, 3749916.5,      534.7,      534.7,      2.0);        ( 471710.3, 3750132.8,
  537.0,     537.0,      2.0);
  ( 471273.9, 3750119.8,      540.5,      540.5,
  2.0);
```

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                          (1=YES; 0=NO)

     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

           NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
           INCLUDED IN THE DATA FILE.

                              *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                              ***
                                          (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23, 10.80,

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL

```
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:    3171              Upper air station no.:     3190
                  Name: UNKNOWN                                Name:
                  UNKNOWN
                  Year:   2012                                 Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
 WD      HT   REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.     77.9  0.15   2.40   1.00    2.93
55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
75.   10.1  288.8    2.0
```

```
First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW   sigmaV
12 01 01 01   10.1 1   55.    2.93  288.2    99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

                   PAGE 59
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                        VOL3   , VOL4   , VOL5   ,
                        VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                        VOL11   , VOL12   , VOL13   ,
                        VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                        VOL19   , VOL20   , VOL21   ,
                        VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                        VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF CO   IN
                              MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - - -
     472283.74 3752640.98   18.17809 (13112916)   472482.23
     3752398.04   10.41981 (14111116)
     472477.97 3752183.12   12.11263 (12121716)   472148.10
     3752531.53   33.72388 (13112916)
     472052.12 3752531.22   40.33359 (13112916)   471975.52
     3752531.22   30.59967 (13112916)
     471896.06 3752530.90   30.45849 (13112916)   471840.76
     3752529.94   30.12590 (13112916)
     471816.60 3752527.08   28.96308 (13112916)   471736.82
     3752557.91   32.22817 (13112916)
     471696.59 3752558.87   35.11050 (13112916)   471627.29
     3752556.22   34.28274 (13112916)
     471584.60 3752556.76   29.77492 (13112916)   471560.01
     3752556.22   27.36965 (13112916)
     471534.35 3752554.87   25.95599 (13112916)   471514.89
     3752554.87   25.73298 (13112916)
     471486.79 3752555.68   26.63535 (13112916)   471465.72
     3752555.41   27.38368 (13112916)
     471442.21 3752554.98   27.41939 (13112916)   471419.71
     3752552.46   27.10743 (13112916)
     471394.22 3752552.91   26.14574 (13112916)   471363.44
     3752552.46   25.10099 (13112916)
     471332.68 3752553.31   24.86588 (13112916)   471307.62
     3752552.94   25.72491 (13112916)
     471284.05 3752552.70   27.15450 (13112916)   471261.98
     3752552.70   28.45871 (13112916)
     471241.90 3752552.70   29.25569 (13112916)   471223.15
     3752552.86   29.53686 (13112916)
     471205.90 3752552.86   29.38435 (13112916)   471173.21
     3752552.37   27.90581 (13112916)
     471135.70 3752552.53   23.27866 (13112916)   471093.22
     3752551.54   22.58673 (14021809)
     471059.37 3752551.70   23.12316 (14021809)   471020.54
```

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           3752551.20   20.82320 (14021809)
 470981.05   3752563.65   16.00199 (14021809)   470980.39
           3752552.20   16.39196 (14021809)
 470980.06   3752535.61   16.99764 (14021809)   470979.89
           3752517.19   17.64774 (14021809)
 470980.06   3752499.76   18.86336 (13021809)   470980.22
           3752479.85   20.79363 (16120116)
 470980.39   3752459.44   22.64438 (13112716)   470980.22
           3752433.22   25.84529 (13112716)
 470980.06   3752404.02   27.14097 (15021709)   470927.12
           3752402.69   18.28069 (13112716)
 470907.87   3752402.69   16.52283 (13112716)   470887.30
           3752402.69   14.98063 (13112716)
 470869.71   3752402.03   13.93281 (13112716)   470849.63
           3752401.86   12.92106 (13112716)
 470829.39   3752402.19   12.05171 (13112716)   470811.63
           3752402.19   11.38504 (13112716)
 470791.55   3752402.53   10.71717 (13112716)   470773.63
           3752401.86   10.18637 (13112716)
 470749.24   3752402.19   9.54372 (13112716)   470727.72
           3752391.74   9.06273 (13112716)
 470733.04   3752338.97   9.13085 (13112716)   470733.70
           3752320.55   9.09977 (13112716)
 470734.20   3752291.01   9.03965 (13112716)   470733.20
           3752265.78   8.97813 (15021709)
 470732.87   3752218.81   9.09755 (15021709)   470732.54
           3752182.14   9.15169 (15021709)
 470732.37   3752145.29   9.22071 (15021709)   470692.38
           3752144.80   8.49646 (15021709)
 470670.14   3752144.46   8.15332 (15021709)   470651.72
           3752144.30   7.89421 (15021709)
 470633.46   3752144.13   7.65895 (15021709)   470615.54
           3752143.97   7.44531 (15021709)
 470595.95   3752143.30   7.23039 (15021709)   470577.03
           3752143.47   7.03478 (15021709)
 470553.63   3752143.47   6.81153 (15021709)   470528.57
           3752142.64   6.59547 (15021709)
 470507.99   3752142.80   6.42896 (15021709)   470485.59
           3752142.47   6.26115 (15021709)
 470471.60   3752131.63   6.19772 (15021709)   470471.60
           3752109.21   6.27535 (15021709)
 470471.32   3752085.22   6.36273 (15021709)   470471.46
           3752037.68   6.56783 (15021709)
 470471.74   3752013.00   6.69147 (15021709)   470470.89
           3751987.18   6.82046 (15021709)
 470470.89   3751965.74   6.93573 (15021709)   470470.75
           3751944.44   7.04711 (15021709)
```
*** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        09:36:29


               PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                        *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                       SOURCE GROUP:  ALL       ***
                          INCLUDING SOURCE(S):     VOL1        , VOL2         ,
                            VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        , VOL8        , VOL9        , VOL10         ,
              VOL11       , VOL12       , VOL13       ,
              VOL14       , VOL15       , VOL16       , VOL17      , VOL18         ,
              VOL19       , VOL20       , VOL21       ,
              VOL22       , VOL23       , VOL24       , VOL25      , VOL26         ,
              VOL27       , VOL28       ,  . . .      ,

                       ** CONC OF CO        IN
                       MICROGRAMS/M**3                                    **

| X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) | X-COORD (M) | Y-COORD (M) | CONC | (YYMMDDHH) |
|---|---|---|---|---|---|---|---|
| 470470.61 | 3751924.27 | 7.14646 | (15021709) | 470470.47 | 3751905.93 | 7.22767 | (15021709) |
| 470470.89 | 3751884.06 | 7.31486 | (15021709) | 470470.61 | 3751864.03 | 7.37003 | (15021709) |
| 470470.33 | 3751844.00 | 7.40552 | (15021709) | 470470.19 | 3751824.53 | 7.42136 | (15021709) |
| 470470.33 | 3751805.77 | 7.42147 | (15021709) | 470470.33 | 3751788.00 | 7.40514 | (15021709) |
| 470470.33 | 3751761.19 | 7.36014 | (15021709) | 470471.03 | 3751741.87 | 7.31894 | (15021709) |
| 470470.05 | 3751722.82 | 7.25110 | (15021709) | 470470.19 | 3751703.36 | 7.18491 | (15021709) |
| 470470.19 | 3751683.75 | 7.11053 | (15021709) | 470470.33 | 3751664.28 | 7.07431 | (14123016) |
| 470470.33 | 3751642.41 | 7.12333 | (14123016) | 470470.47 | 3751621.82 | 7.15273 | (14123016) |
| 470470.19 | 3751599.81 | 7.16312 | (14123016) | 470470.61 | 3751578.79 | 7.16331 | (14123016) |
| 470469.62 | 3751555.94 | 7.11530 | (14123016) | 470470.05 | 3751512.49 | 7.00116 | (14123016) |
| 470468.64 | 3751414.59 | 6.58330 | (14123016) | 470469.76 | 3751385.25 | 6.57180 | (14123016) |
| 470468.65 | 3751358.95 | 6.44305 | (14123016) | 470462.93 | 3751325.56 | 6.22854 | (12121315) |
| 470461.98 | 3751310.62 | 6.20900 | (12121315) | 470462.61 | 3751296.63 | 6.20553 | (12121315) |
| 470462.61 | 3751283.28 | 6.19563 | (12121315) | 470462.61 | 3751269.92 | 6.18452 | (12121315) |
| 470462.93 | 3751254.35 | 6.17148 | (12121315) | 470461.98 | 3751240.67 | 6.14426 | (12121315) |
| 470463.25 | 3751227.64 | 6.13233 | (12121315) | 470756.39 | 3751290.59 | 10.12479 | (12121315) |
| 470797.72 | 3751268.33 | 10.68191 | (12121315) | 470891.19 | 3751226.38 | 12.37263 | (12012316) |
| 470940.78 | 3751191.82 | 12.97621 | (14020616) | 471000.61 | 3750923.63 | 11.70623 | (12012316) |
| 471029.26 | 3750923.63 | 11.85418 | (12012316) | 471056.29 | 3750923.90 | 11.83055 | (12012316) |
| 471077.91 | 3750924.44 | 11.70398 | (12012316) | 471097.64 | 3750924.44 | 11.48274 | (12012316) |
| 471118.18 | 3750924.98 | 11.51262 | (16112816) | 471138.99 | 3750927.42 | 12.56099 | (16112816) |
| 471160.07 | 3750928.77 | 13.73618 | (16112816) | 471181.15 | 3750931.47 | 15.63216 | (12121316) |
| 471201.69 | 3750930.93 | 18.08152 | (12121316) | 471222.50 | 3750931.47 | 17.76361 | (12121316) |
| 471244.13 | 3750931.20 | 18.97143 | (16112816) | 471264.40 | 3750931.74 | 20.02281 | (16112816) |
| 471284.40 | 3750931.74 | 20.73504 | (16112816) | 471305.75 | 3750931.74 | 21.09494 | (16112816) |
| 471324.67 | 3750930.93 | 20.97592 | (16112816) | 471343.05 | 3750930.12 | 20.54024 | (16112816) |
| 471363.86 | 3750929.04 | 19.75877 | (16112816) | 471381.96 | 3750928.77 | 18.96449 | (16112816) |
| 471400.88 | 3750928.23 | 18.09885 | (16112816) | 471421.15 | 3750927.96 | 17.27557 | (16112816) |
| 471440.59 | 3750928.11 | 16.70293 | (16112816) | 471461.83 | | | |

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         3750927.45        16.33901  (16112816)
471479.76    3750927.95        16.25910  (16112816)                471499.68
         3750927.62        16.31140  (16112816)
471519.26    3750928.78        16.47911  (16112816)                471537.02
         3750929.61        16.58748  (16112816)
471556.77    3750930.94        16.63233  (16112816)                471580.68
         3750934.09        16.53092  (16112816)
471624.00    3750940.23        16.56579  (15122816)                471795.90
         3750950.11        12.83555  (15122816)
471796.29    3750967.88        12.96415  (15122816)                471796.69
         3750987.22        13.02661  (15122816)
471797.47    3751006.75        12.93803  (15122816)                471796.69
         3751025.30        13.09725  (15122816)
471795.90    3751046.40        12.97272  (15122816)                471796.69
         3751072.96        12.94917  (16112816)
471797.47    3751143.85        15.03871  (12121716)                471833.01
         3751143.85        15.15709  (12121716)
471867.38    3751144.05        15.10523  (12121716)                471891.02
         3751144.44        14.96811  (12121716)
471916.60    3751144.24        14.67062  (12121716)                471939.45
         3751144.24        14.36895  (12121716)
471963.08    3751144.44        13.91649  (12121716)                471984.17
         3751144.05        13.62577  (12121716)
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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                  PAGE 61
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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                         *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                              VOL3        , VOL4       , VOL5        ,
          VOL6        , VOL7        , VOL8       , VOL9        , VOL10       ,
          VOL11       , VOL12       , VOL13       ,
          VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
          VOL19       , VOL20       , VOL21       ,
          VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
          VOL27       , VOL28       ,  . . .      ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                      ** CONC OF CO       IN
                         MICROGRAMS/M**3                              **


    X-COORD (M)  Y-COORD (M)       CONC    (YYMMDDHH)           X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
     471999.02   3751163.38       14.35163  (12121716)                472000.19
         3751199.12        15.81776  (12121716)
     471999.80   3751230.56       16.61204  (12121716)                472000.38
         3751251.46        16.95122  (12121716)
     472000.19   3751281.15       17.42184  (12121716)                472001.95
         3751347.94        19.03117  (12121716)
     472036.90   3751348.52       18.05976  (12121716)                472063.07
         3751349.31        17.39854  (12121716)
     472084.56   3751348.33       16.87885  (12121716)                472104.87
         3751348.72        16.45620  (12121716)
     472127.33   3751348.52       15.98713  (12121716)                472150.76
         3751349.70        15.54868  (12121716)
     472171.47   3751349.50       15.13050  (12121716)                472194.12
         3751349.11        14.67314  (12121716)
     472222.63   3751348.72       14.17673  (12121716)                472247.83
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          3751349.50        13.76125  (12121716)
  472269.70   3751349.11    13.40193  (12121716)             472290.40
          3751350.28        13.10993  (12121716)
  472313.64   3751350.48    12.77853  (12121716)             472333.76
          3751351.26        12.51071  (12121716)
  472354.85   3751351.26    12.21471  (12121716)             472377.70
          3751351.06        11.89491  (12121716)
  472401.72   3751351.06    11.57627  (12121716)             472425.55
          3751351.84        11.29032  (12121716)
  472445.67   3751350.67    11.04546  (12121716)             472463.24
          3751350.87        10.84127  (12121716)
  472484.14   3751350.87    10.60090  (12121716)             472503.87
          3751351.26        10.39672  (12121716)
  472523.79   3751351.26    10.20566  (12121716)             472543.32
          3751351.26        10.02727  (12121716)
  472563.24   3751352.24     9.85443  (12121716)             472582.57
          3751352.04         9.68233  (12121716)
  472601.32   3751352.04     9.52259  (12121716)             472606.79
          3751367.27         9.59636  (12121716)
  472607.57   3751396.37     9.84368  (12121716)             472608.55
          3751432.11        10.19385  (12121716)
  472608.94   3751462.58    10.54529  (12121716)             472609.52
          3751497.15        11.09214  (12121716)
  472610.70   3751553.78    12.52338  (12121716)             472665.97
          3751553.98        12.31317  (12121716)
  472690.38   3751553.59    12.22626  (12121716)             472713.50
          3751554.27        12.19589  (12121716)
  472734.64   3751554.04    12.12487  (12121716)             472759.46
          3751554.04        12.04917  (12121716)
  472781.75   3751554.50    12.00410  (12121716)             472849.76
          3751556.11        11.94192  (12121716)
  472871.82   3751556.11    11.87866  (12121716)             472895.25
          3751555.65        11.78558  (12121716)
  472922.60   3751555.88    11.70240  (12121716)             473092.41
          3751802.31        21.02016  (12121716)
  473204.80   3751856.81    14.38871  (12121716)             472991.21
          3752083.31        15.31517  (13112916)
  473295.12   3752052.49     7.58142  (14111116)             473356.76
          3752050.34         6.47302  (14111116)
  473495.10   3751996.58     6.42366  (13112016)             473486.50
          3751917.74         7.79372  (13112016)
  473392.60   3752058.22     6.00560  (14111116)             473464.28
          3752082.59         5.30167  (14111116)
  473550.29   3752087.61     4.65371  (13121916)             473584.69
          3752089.76         4.50688  (13121916)
  472765.59   3752474.09     6.46422  (14111116)             470432.16
          3750483.93        10.63262  (12121316)
  469244.06   3754182.82     2.22937  (14020709)             469596.75
          3750785.65         3.36610  (14101709)
  470466.55   3750530.27    11.76203  (12121316)             469319.29
          3749244.53         2.69114  (14121709)
  469229.64   3749502.19     2.57211  (15122209)             468465.38
          3749582.33         2.63227  (12011709)
  471438.37   3750129.76     7.83726  (15122816)             471657.54
          3749918.78         5.80717  (15122816)
  471732.91   3749916.52     5.33313  (15122816)             471710.30
          3750132.80         6.46596  (15122816)
  471273.89   3750119.77     6.68295
          (15122816)
```

🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                  PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                    SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                     ** CONC OF CO   IN
                        MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
    (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
      472283.74   3752640.98   4.08466 (13100916)   472482.23
      3752398.04   4.01014 (13112116)
      472477.97   3752183.12   5.26809 (12121716)   472148.10
      3752531.53   6.82125 (13100916)
      472052.12   3752531.22   7.94983 (13100916)   471975.52
      3752531.22   7.64085 (13100916)
      471896.06   3752530.90   7.71740 (13100916)   471840.76
      3752529.94   7.64734 (13100916)
      471816.60   3752527.08   7.68989 (13121916)   471736.82
      3752557.91   7.58423 (13100916)
      471696.59   3752558.87   7.67929 (13100916)   471627.29
      3752556.22   8.06685 (13121916)
      471584.60   3752556.76   8.32569 (13121916)   471560.01
      3752556.22   8.32406 (13121916)
      471534.35   3752554.87   8.33902 (16010616)   471514.89
      3752554.87   8.32489 (16010616)
      471486.79   3752555.68   8.31689 (16010616)   471465.72
      3752555.41   8.23317 (16010616)
      471442.21   3752554.98   8.01250 (16010616)   471419.71
      3752552.46   7.94108 (16010616)
      471394.22   3752552.91   7.93396 (16010616)   471363.44
      3752552.46   8.07564 (16010616)
      471332.68   3752553.31   8.16385 (16010616)   471307.62
      3752552.94   8.18608 (16010616)
      471284.05   3752552.70   8.12105 (16010616)   471261.98
      3752552.70   8.05301 (16010616)
      471241.90   3752552.70   8.02637 (16010616)   471223.15
      3752552.86   8.04992 (16010616)
      471205.90   3752552.86   8.11847 (16010616)   471173.21
      3752552.37   8.37700 (16010616)
      471135.70   3752552.53   8.78658 (16010616)   471093.22
      3752551.54   9.34497 (16010616)
      471059.37   3752551.70   9.37779 (16010616)   471020.54
      3752551.20   8.86220 (16010616)
      470981.05   3752563.65   7.63882 (16010516)   470980.39
      3752552.20   8.09639 (16010516)
      470980.06   3752535.61   8.80380 (16010516)   470979.89
      3752517.19   9.83231 (14121216)
      470980.06   3752499.76   10.99314 (14121216)   470980.22
      3752479.85   12.25804 (14121216)
      470980.39   3752459.44   13.29985 (14121216)   470980.22
      3752433.22   13.70886 (14121216)
      470980.06   3752404.02   14.29280 (12121316)   470927.12
      3752402.69   8.60905 (14121216)
      470907.87   3752402.69   7.72335 (14121216)   470887.30

```
                              3752402.69           6.97103  (14121216)
     470869.71    3752402.03          6.48311  (14121216)              470849.63
     3752401.86           6.01318  (14121216)
     470829.39    3752402.19          5.60957  (14121216)              470811.63
     3752402.19           5.30029  (14121216)
     470791.55    3752402.53          4.99028  (14121216)              470773.63
     3752401.86           4.74403  (14121216)
     470749.24    3752402.19          4.44728  (14121216)              470727.72
     3752391.74           4.23524  (14121216)
     470733.04    3752338.97          4.38517  (14121216)              470733.70
     3752320.55           4.42315  (14121216)
     470734.20    3752291.01          4.47939  (14121216)              470733.20
     3752265.78           4.51065  (14121216)
     470732.87    3752218.81          4.64869  (12121316)              470732.54
     3752182.14           4.82435  (12121316)
     470732.37    3752145.29          5.01151  (12121316)              470692.38
     3752144.80           4.49411  (12121316)
     470670.14    3752144.46          4.27253  (14121216)              470651.72
     3752144.30           4.10672  (14121216)
     470633.46    3752144.13          3.94325  (14121216)              470615.54
     3752143.97           3.78746  (14121216)
     470595.95    3752143.30          3.62333  (14121216)              470577.03
     3752143.47           3.47206  (14121216)
     470553.63    3752143.47          3.29320  (14121216)              470528.57
     3752142.64           3.12152  (12121316)
     470507.99    3752142.80          3.01739  (15112716)              470485.59
     3752142.47           2.91252  (15112716)
     470471.60    3752131.63          2.87502  (15112716)              470471.60
     3752109.21           2.92877  (15112716)
     470471.32    3752085.22          2.98682  (15112716)              470471.46
     3752037.68           3.11352  (12121316)
     470471.74    3752013.00          3.17836  (12121316)              470470.89
     3751987.18           3.23743  (15112716)
     470470.89    3751965.74          3.28791  (15112716)              470470.75
     3751944.44           3.33260  (15112716)
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:36:29

                 PAGE 63
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                              *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF CO   IN
                              MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - - -
     470470.61   3751924.27   3.36867 (15112716)   470470.47
     3751905.93   3.39554 (15112716)
     470470.89   3751884.06   3.42589 (15112716)   470470.61
```

	3751864.03	3.44175	(15112716)	
470470.33	3751844.00	3.45885	(12121316)	470470.19
	3751824.53	3.47578	(12121316)	
470470.33	3751805.77	3.49195	(12121316)	470470.33
	3751788.00	3.50381	(12121316)	
470470.33	3751761.19	3.52582	(12121316)	470471.03
	3751741.87	3.54114	(12121316)	
470470.05	3751722.82	3.53702	(12121316)	470470.19
	3751703.36	3.53362	(12121316)	
470470.19	3751683.75	3.52144	(12121316)	470470.33
	3751664.28	3.50514	(12121316)	
470470.33	3751642.41	3.47812	(12121316)	470470.47
	3751621.82	3.44691	(12121316)	
470470.19	3751599.81	3.40411	(12121316)	470470.61
	3751578.79	3.36404	(12121316)	
470469.62	3751555.94	3.33698	(16122916)	470470.05
	3751512.49	3.32370	(16122916)	
470468.64	3751414.59	3.27449	(14123016)	470469.76
	3751385.25	3.29386	(14123016)	
470468.65	3751358.95	3.27659	(14123016)	470462.93
	3751325.56	3.21683	(14123016)	
470461.98	3751310.62	3.19881	(14123016)	470462.61
	3751296.63	3.19014	(14123016)	
470462.61	3751283.28	3.17720	(14123016)	470462.61
	3751269.92	3.16328	(14123016)	
470462.93	3751254.35	3.15895	(16122016)	470461.98
	3751240.67	3.14827	(16122016)	
470463.25	3751227.64	3.14547	(16122016)	470756.39
	3751290.59	5.71081	(14123016)	
470797.72	3751268.33	6.05924	(14123016)	470891.19
	3751226.38	6.86417	(14123016)	
470940.78	3751191.82	7.23159	(14123016)	471000.61
	3750923.63	4.77353	(13112216)	
471029.26	3750923.63	5.01703	(13112216)	471056.29
	3750923.90	5.22632	(13112216)	
471077.91	3750924.44	5.36275	(13112216)	471097.64
	3750924.44	5.44358	(13112216)	
471118.18	3750924.98	5.51352	(13112216)	471138.99
	3750927.42	5.57022	(13112216)	
471160.07	3750928.77	5.54588	(13112216)	471181.15
	3750931.47	5.54346	(13112216)	
471201.69	3750930.93	5.51168	(15121516)	471222.50
	3750931.47	5.50754	(15121516)	
471244.13	3750931.20	5.42820	(15121516)	471264.40
	3750931.74	5.31975	(15121516)	
471284.40	3750931.74	5.18758	(12012416)	471305.75
	3750931.74	5.09883	(12012416)	
471324.67	3750930.93	4.98562	(14110316)	471343.05
	3750930.12	4.95487	(14110316)	
471363.86	3750929.04	4.89001	(14110316)	471381.96
	3750928.77	4.82441	(14110316)	
471400.88	3750928.23	4.74214	(14110316)	471421.15
	3750927.96	4.64879	(14110316)	
471440.59	3750928.11	4.56173	(14110316)	471461.83
	3750927.45	4.45510	(14110316)	
471479.76	3750927.95	4.36821	(14110316)	471499.68
	3750927.62	4.25550	(14110316)	
471519.26	3750928.78	4.15014	(14110316)	471537.02
	3750929.61	4.18444	(15122816)	
471556.77	3750930.94	4.25356	(15122816)	471580.68
	3750934.09	4.37457	(15122816)	
471624.00	3750940.23	4.41916	(15122816)	471795.90
	3750950.11	3.86726	(15122816)	
471796.29	3750967.88	4.00668	(15122816)	471796.69
	3750987.22	4.16564	(15122816)	
471797.47	3751006.75	4.32502	(15122816)	471796.69

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          3751025.30          4.50045  (15122816)
 471795.90   3751046.40          4.67319  (15122816)              471796.69
          3751072.96          4.88138  (15122816)
 471797.47   3751143.85          5.59262  (15122816)              471833.01
          3751143.85          5.16427  (15122816)
 471867.38   3751144.05          4.72824  (15122816)              471891.02
          3751144.44          4.57898  (15122816)
 471916.60   3751144.24          4.44464  (15122816)              471939.45
          3751144.24          4.25395  (15122816)
 471963.08   3751144.44          4.10739  (15122816)              471984.17
          3751144.05          3.93956  (15122816)
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🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

                     PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                    VOL3   , VOL4   , VOL5   ,
          VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
          VOL11   , VOL12   , VOL13   ,
          VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
          VOL19   , VOL20   , VOL21   ,
          VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
          VOL27   , VOL28   ,   . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF CO   IN
                         MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - -
     471999.02   3751163.38   3.99235 (15122816)   472000.19
          3751199.12   4.21086 (15122816)
     471999.80   3751230.56   4.40897 (15122816)   472000.38
          3751251.46   4.60522 (13112016)
     472000.19   3751281.15   4.94532 (13112016)   472001.95
          3751347.94   5.73353 (13112016)
     472036.90   3751348.52   5.34811 (13112016)   472063.07
          3751349.31   5.09227 (13112016)
     472084.56   3751348.33   4.89547 (13112016)   472104.87
          3751348.72   4.74506 (13112016)
     472127.33   3751348.52   4.58872 (13112016)   472150.76
          3751349.70   4.44569 (13112016)
     472171.47   3751349.50   4.31343 (13112016)   472194.12
          3751349.11   4.18719 (13112016)
     472222.63   3751348.72   4.03937 (13112016)   472247.83
          3751349.50   3.92401 (13112016)
     472269.70   3751349.11   3.82447 (13112016)   472290.40
          3751350.28   3.73771 (13112016)
     472313.64   3751350.48   3.63878 (13112016)   472333.76
          3751351.26   3.56381 (13112016)
     472354.85   3751351.26   3.49238 (13112016)   472377.70
          3751351.06   3.41929 (13112016)
     472401.72   3751351.06   3.34731 (13112016)   472425.55
          3751351.84   3.28167 (13112016)
     472445.67   3751350.67   3.21707 (13112016)   472463.24
          3751350.87   3.17221 (13112016)
     472484.14   3751350.87   3.11714 (13112016)   472503.87

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          3751351.26       3.06641   (13112016)
472523.79   3751351.26       3.01314   (13112016)                472543.32
          3751351.26       2.96164   (13112016)
472563.24   3751352.24       2.91563   (13112016)                472582.57
          3751352.04       2.86720   (13112016)
472601.32   3751352.04       2.82225   (13112016)                472606.79
          3751367.27       2.87478   (13112016)
472607.57   3751396.37       3.00030   (13112016)                472608.55
          3751432.11       3.16627   (13112016)
472608.94   3751462.58       3.33163   (13112016)                472609.52
          3751497.15       3.54136   (13112016)
472610.70   3751553.78       3.98477   (13112016)                472665.97
          3751553.98       3.82725   (13112016)
472690.38   3751553.59       3.75472   (13112016)                472713.50
          3751554.27       3.68688   (13112016)
472734.64   3751554.04       3.62324   (13112016)                472759.46
          3751554.04       3.55080   (13112016)
472781.75   3751554.50       3.48630   (13112016)                472849.76
          3751556.11       3.34535   (12113016)
472871.82   3751556.11       3.30466   (12113016)                472895.25
          3751555.65       3.25887   (12113016)
472922.60   3751555.88       3.21182   (12113016)                473092.41
          3751802.31       5.85988   (12042316)
473204.80   3751856.81       4.96419   (12042316)                472991.21
          3752083.31       5.19497   (14111116)
473295.12   3752052.49       3.26279   (15042416)                473356.76
          3752050.34       2.96801   (15042416)
473495.10   3751996.58       2.53846   (12050116)                473486.50
          3751917.74       2.74150   (12050116)
473392.60   3752058.22       2.78086   (15042416)                473464.28
          3752082.59       2.44377   (15042416)
473550.29   3752087.61       2.19447   (15042416)                473584.69
          3752089.76       2.10788   (15042416)
472765.59   3752474.09       2.68771   (13112116)                470432.16
          3750483.93       2.19680   (12121316)
469244.06   3754182.82       0.52341   (16010516)                469596.75
          3750785.65       1.90735   (13012516)
470466.55   3750530.27       2.38028   (12121316)                469319.29
          3749244.53       0.74506   (13012516)
469229.64   3749502.19       1.02089   (13012516)                468465.38
          3749582.33       1.23630   (13012516)
471438.37   3750129.76       1.34916   (12012416)                471657.54
          3749918.78       1.01930   (15122816)
471732.91   3749916.52       0.98464   (15122816)                471710.30
          3750132.80       1.23007   (15122816)
471273.89   3750119.77       1.51464
          (12012416)
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

                    PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

                          ** CONC OF CO   IN
                             MICROGRAMS/M**3   **

                                          DATE
                                                                                 NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID

- -
- -

ALL   HIGH   1ST HIGH VALUE IS   40.33359 ON 13112916: AT (472052.12, 3752531.22,
499.36,   512.00,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🔲🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

                            ** CONC OF CO   IN
                            MICROGRAMS/M**3   **

                                         DATE
                                                                           NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   14.29280 ON 12121316: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🔲🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:36:29

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

    ******** FATAL ERROR MESSAGES ********
             *** NONE ***

```
        ********    WARNING MESSAGES    ********
ME W186      881         MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187      881         MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


        ************************************
        *** AERMOD Finishes Successfully ***
        ************************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons NO2\14064 Cons
NO2.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons NO2.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473   3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212   3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136   3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606   3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736   3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660   3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690   3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898   3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181   3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636   3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712   3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581   3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617   3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380   3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889   3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606   3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530   3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661   3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898   3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105   3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181   3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465   3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541   3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410   3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435   3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117   3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248   3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172   3751619.077      534.860
```

```
LOCATION VOL29          VOLUME       471577.888   3751616.698      529.000
LOCATION VOL30          VOLUME       471724.580   3751620.663      533.750
LOCATION VOL31          VOLUME       471941.049   3751865.677      534.600
LOCATION VOL32          VOLUME       471795.151   3751684.890      537.260
LOCATION VOL33          VOLUME       471577.888   3751434.325      531.060
LOCATION VOL34          VOLUME       471389.965   3751431.946      537.260
LOCATION VOL35          VOLUME       471202.041   3751467.628      526.830
LOCATION VOL36          VOLUME       471065.657   3751504.895      521.960
LOCATION VOL37          VOLUME       471656.388   3751514.411      529.480
LOCATION VOL38          VOLUME       471522.384   3751324.108      529.000
LOCATION VOL39          VOLUME       471332.874   3751322.522      529.530
LOCATION VOL40          VOLUME       471282.920   3751321.729      528.170
LOCATION VOL41          VOLUME       471233.758   3751388.335      528.470
LOCATION VOL42          VOLUME       472135.642   3751845.064      525.790
LOCATION VOL43          VOLUME       472323.361   3751843.460      510.520
LOCATION VOL44          VOLUME       472512.544   3751852.284      501.450
LOCATION VOL45          VOLUME       472698.022   3751875.469      491.390
LOCATION VOL46          VOLUME       472880.772   3751928.657      487.900
LOCATION VOL47          VOLUME       472608.011   3752044.580      498.520
LOCATION VOL48          VOLUME       471084.506   3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL2         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL3         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL4         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL5         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL6         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL7         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL8         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL9         0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL10        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL11        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL12        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL13        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL14        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL15        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL16        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL17        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL18        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL19        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL20        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL21        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL22        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL23        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL24        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL25        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL26        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL27        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL28        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL29        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL30        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL31        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL32        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL33        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL34        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL35        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL36        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL37        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL38        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL39        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL40        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL41        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL42        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL43        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL44        0.1325438642     5.000     43.702    1.400
   SRCPARAM VOL45        0.1325438642     5.000     43.702    1.400
```

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   SRCPARAM VOL46          0.1325438642     5.000    43.702      1.400
   SRCPARAM VOL47          0.1325438642     5.000    43.702      1.400
   SRCPARAM VOL48          0.1325438642     5.000    43.702      1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
      EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
      INCLUDED "14064 Cons NO2.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
      SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
      PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
      SURFDATA 3171 2012
      UAIRDATA 3190 2012
      PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
      RECTABLE ALLAVE 1ST
      RECTABLE 1 1ST
** Auto-Generated Plotfiles
      PLOTFILE 1 ALL 1ST "14064 CONS NO2.AD\01H1GALL.PLT" 31
      SUMMFILE "14064 Cons NO2.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
               ***   NONE   ***


     ********    WARNING MESSAGES    ********
 ME W186     881        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ********************************
 *** SETUP Finishes Successfully ***
 ********************************

▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***           09:40:00
```

                                     ***   MODEL SETUP OPTIONS SUMMARY   ***
- -
- - - - - - - - - - - - - - -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   48 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   2189641.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: NOX

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 48 Source(s);   1 Source Group(s); and   233 Receptor(s)

              with: 0 POINT(s), including
                         0 POINTCAP(s) and   0 POINTHOR(s)
            and: 48 VOLUME source(s)
            and: 0 AREA type source(s)
            and: 0 LINE source(s)
            and: 0 RLINE/RLINEXT source(s)
            and: 0 OPENPIT source(s)
            and: 0 BUOYANT LINE source(s) with a total of   0 line(s)
            and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
                                                               m for Missing Hours
                                                               b for Both Calm and Missing
                                                               Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ; Decay Coef. =
0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File: 14064 Cons
NO2.err
**File for Summary of Results: 14064 Cons
NO2.sum

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
***   ***   09:40:00

                        PAGE   2
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                                     *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - -

VOL1   0   0.13254E+00 471175.5 3752366.4   510.2   5.00   43.70   1.40
YES   HRDOW
VOL2   0   0.13254E+00 471362.2 3752367.6   512.4   5.00   43.70   1.40
YES   HRDOW
VOL3   0   0.13254E+00 471550.1 3752368.4   518.9   5.00   43.70   1.40
YES   HRDOW
VOL4   0   0.13254E+00 471609.6 3752371.6   516.0   5.00   43.70   1.40
YES   HRDOW
VOL5   0   0.13254E+00 471796.7 3752342.2   515.1   5.00   43.70   1.40
YES   HRDOW
VOL6   0   0.13254E+00 471984.7 3752344.6   513.6   5.00   43.70   1.40
YES   HRDOW
VOL7   0   0.13254E+00 472003.7 3752347.0   512.1   5.00   43.70   1.40
YES   HRDOW
VOL8   0   0.13254E+00 472002.9 3752159.1   521.6   5.00   43.70   1.40
YES   HRDOW
VOL9   0   0.13254E+00 471814.2 3752156.7   520.7   5.00   43.70   1.40
YES   HRDOW
VOL10   0   0.13254E+00 471628.6 3752181.3   526.8   5.00   43.70   1.40
YES   HRDOW
VOL11   0   0.13254E+00 471440.7 3752181.3   527.4   5.00   43.70   1.40
YES   HRDOW
VOL12   0   0.13254E+00 471253.6 3752180.5   518.9   5.00   43.70   1.40
YES   HRDOW
VOL13   0   0.13254E+00 471092.6 3752217.7   509.6   5.00   43.70   1.40
YES   HRDOW
VOL14   0   0.13254E+00 471074.4 3752029.0   516.1   5.00   43.70   1.40
YES   HRDOW
VOL15   0   0.13254E+00 471263.9 3751992.5   521.1   5.00   43.70   1.40
YES   HRDOW
VOL16   0   0.13254E+00 471452.6 3751994.1   530.0   5.00   43.70   1.40
YES   HRDOW
VOL17   0   0.13254E+00 471640.5 3751992.5   534.9   5.00   43.70   1.40
YES   HRDOW
VOL18   0   0.13254E+00 471827.7 3751968.0   533.0   5.00   43.70   1.40
YES   HRDOW
VOL19   0   0.13254E+00 472002.9 3751970.3   527.9   5.00   43.70   1.40

```
YES    HRDOW
VOL20              0   0.13254E+00   471845.1 3751780.0   538.8    5.00   43.70    1.40
YES    HRDOW
VOL21              0   0.13254E+00   471657.2 3751803.8   536.0    5.00   43.70    1.40
YES    HRDOW
VOL22              0   0.13254E+00   471468.5 3751806.2   528.3    5.00   43.70    1.40
YES    HRDOW
VOL23              0   0.13254E+00   471280.5 3751807.0   525.0    5.00   43.70    1.40
YES    HRDOW
VOL24              0   0.13254E+00   471093.4 3751841.9   515.6    5.00   43.70    1.40
YES    HRDOW
VOL25              0   0.13254E+00   470978.4 3751841.9   518.1    5.00   43.70    1.40
YES    HRDOW
VOL26              0   0.13254E+00   471014.1 3751654.8   520.4    5.00   43.70    1.40
YES    HRDOW
VOL27              0   0.13254E+00   471201.2 3751654.8   525.1    5.00   43.70    1.40
YES    HRDOW
VOL28              0   0.13254E+00   471389.2 3751619.1   534.9    5.00   43.70    1.40
YES    HRDOW
VOL29              0   0.13254E+00   471577.9 3751616.7   529.0    5.00   43.70    1.40
YES    HRDOW
VOL30              0   0.13254E+00   471724.6 3751620.7   533.8    5.00   43.70    1.40
YES    HRDOW
VOL31              0   0.13254E+00   471941.0 3751865.7   534.6    5.00   43.70    1.40
YES    HRDOW
VOL32              0   0.13254E+00   471795.2 3751684.9   537.3    5.00   43.70    1.40
YES    HRDOW
VOL33              0   0.13254E+00   471577.9 3751434.3   531.1    5.00   43.70    1.40
YES    HRDOW
VOL34              0   0.13254E+00   471390.0 3751431.9   537.3    5.00   43.70    1.40
YES    HRDOW
VOL35              0   0.13254E+00   471202.0 3751467.6   526.8    5.00   43.70    1.40
YES    HRDOW
VOL36              0   0.13254E+00   471065.7 3751504.9   522.0    5.00   43.70    1.40
YES    HRDOW
VOL37              0   0.13254E+00   471656.4 3751514.4   529.5    5.00   43.70    1.40
YES    HRDOW
VOL38              0   0.13254E+00   471522.4 3751324.1   529.0    5.00   43.70    1.40
YES    HRDOW
VOL39              0   0.13254E+00   471332.9 3751322.5   529.5    5.00   43.70    1.40
YES    HRDOW
VOL40              0   0.13254E+00   471282.9 3751321.7   528.2    5.00   43.70    1.40
YES    HRDOW
```

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Campus\14064 Ops\140 ***   10/26/23
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 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                                 *** VOLUME SOURCE DATA ***

```
            NUMBER EMISSION RATE                      BASE    RELEASE    INIT.    INIT.
            URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X        Y       ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)           BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


VOL41              0   0.13254E+00   471233.8 3751388.3   528.5    5.00   43.70    1.40
YES    HRDOW
VOL42              0   0.13254E+00   472135.6 3751845.1   525.8    5.00   43.70    1.40
```

```
YES   HRDOW
VOL43           0  0.13254E+00   472323.4 3751843.5    510.5      5.00     43.70     1.40
YES   HRDOW
VOL44           0  0.13254E+00   472512.5 3751852.3    501.4      5.00     43.70     1.40
YES   HRDOW
VOL45           0  0.13254E+00   472698.0 3751875.5    491.4      5.00     43.70     1.40
YES   HRDOW
VOL46           0  0.13254E+00   472880.8 3751928.7    487.9      5.00     43.70     1.40
YES   HRDOW
VOL47           0  0.13254E+00   472608.0 3752044.6    498.5      5.00     43.70     1.40
YES   HRDOW
VOL48           0  0.13254E+00   471084.5 3752407.2    506.8      5.00     43.70     1.40
YES   HRDOW
```

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Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                   *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

              VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
              VOL15   , VOL16   ,

              VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
              VOL23   , VOL24   ,

              VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
              VOL31   , VOL32   ,

              VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
              VOL39   , VOL40   ,

              VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
              VOL47   , VOL48   ,

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                   *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP   SOURCE IDs
 --------   ---------   ----------

            2189641. VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   ,
 VOL8   ,

            VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
            VOL15   , VOL16   ,

```
         VOL17        , VOL18        , VOL19        , VOL20        , VOL21        , VOL22        ,
         VOL23        , VOL24        ,

         VOL25        , VOL26        , VOL27        , VOL28        , VOL29        , VOL30        ,
         VOL31        , VOL32        ,

         VOL33        , VOL34        , VOL35        , VOL36        , VOL37        , VOL38        ,
         VOL39        , VOL40        ,

         VOL41        , VOL42        , VOL43        , VOL44        , VOL45        , VOL46        ,
         VOL47        , VOL48        ,
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY

```
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

⌷⌷ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL3   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

⌷⌷ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

 SOURCE ID = VOL4   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

  ⏹ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL5   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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Campus\14064 Ops\140 ***          10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***          10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                    PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                    PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL9   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

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  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🈂️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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                  PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = VOL10        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🈂️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- -

                                   DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                        PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

                                   DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                        PAGE 18

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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL13        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
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▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                     PAGE 21
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
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        .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                        PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL17        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                        PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL18        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
 ⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                       PAGE 24
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
 ⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                       PAGE 25
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                  PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE   27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = VOL22        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                     PAGE   28
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = VOL23         ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
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🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY

```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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                 PAGE  31
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL26       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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                 PAGE  32
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL27       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
```

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                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                         PAGE 36
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL31   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

                         PAGE 37
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL32   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔤 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                        PAGE 38
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔤 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                        PAGE 39
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL34   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
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```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
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                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL35        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

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                  PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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                   PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL38   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL39   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
         .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL40   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL41   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL42        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL43        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:40:00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:40:00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *
```

```
 SOURCE ID = VOL45       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL46       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23

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*** AERMET - VERSION  16216 ***
***                                                                    ***        09:40:00


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL47       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
 FF *** AERMOD - VERSION 22112   ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
*** AERMET - VERSION  16216 ***
***                                                                    ***        09:40:00


                    PAGE  53
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL48       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
   1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
   .0000E+00    7 .0000E+00    8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

🆎 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

          PAGE 54
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                    (METERS)

   (472283.7, 3752641.0,   492.6,   492.6,   2.0);   (472482.2, 3752398.0,
     499.3,   499.3,   2.0);
   (472478.0, 3752183.1,   505.1,   505.1,   2.0);   (472148.1, 3752531.5,
     495.2,   502.0,   2.0);
   (472052.1, 3752531.2,   499.4,   512.0,   2.0);   (471975.5, 3752531.2,
     500.5,   514.0,   2.0);
   (471896.1, 3752530.9,   503.4,   513.0,   2.0);   (471840.8, 3752529.9,
     503.4,   513.0,   2.0);
   (471816.6, 3752527.1,   500.6,   513.0,   2.0);   (471736.8, 3752557.9,
     501.5,   501.5,   2.0);
   (471696.6, 3752558.9,   500.0,   500.0,   2.0);   (471627.3, 3752556.2,
     501.9,   512.0,   2.0);
   (471584.6, 3752556.8,   504.5,   507.0,   2.0);   (471560.0, 3752556.2,
     504.6,   507.0,   2.0);
   (471534.3, 3752554.9,   503.2,   509.0,   2.0);   (471514.9, 3752554.9,
     502.2,   519.0,   2.0);
   (471486.8, 3752555.7,   503.1,   503.1,   2.0);   (471465.7, 3752555.4,
     503.1,   503.1,   2.0);
   (471442.2, 3752555.0,   501.3,   505.0,   2.0);   (471419.7, 3752552.5,
     500.3,   505.0,   2.0);
   (471394.2, 3752552.9,   501.4,   501.4,   2.0);   (471363.4, 3752552.5,
     503.5,   503.5,   2.0);
   (471332.7, 3752553.3,   505.8,   505.8,   2.0);   (471307.6, 3752552.9,
     506.9,   506.9,   2.0);
   (471284.0, 3752552.7,   506.2,   506.2,   2.0);   (471262.0, 3752552.7,
     505.7,   505.7,   2.0);
   (471241.9, 3752552.7,   505.6,   505.6,   2.0);   (471223.1, 3752552.9,
     505.9,   505.9,   2.0);
   (471205.9, 3752552.9,   506.2,   506.2,   2.0);   (471173.2, 3752552.4,
     506.5,   506.5,   2.0);
   (471135.7, 3752552.5,   506.1,   506.1,   2.0);   (471093.2, 3752551.5,
     505.4,   505.4,   2.0);
   (471059.4, 3752551.7,   504.7,   504.7,   2.0);   (471020.5, 3752551.2,
     503.1,   503.1,   2.0);
   (470981.0, 3752563.6,   502.1,   502.1,   2.0);   (470980.4, 3752552.2,
     502.5,   502.5,   2.0);
   (470980.1, 3752535.6,   503.0,   503.0,   2.0);   (470979.9, 3752517.2,
     503.7,   503.7,   2.0);
   (470980.1, 3752499.8,   504.0,   504.0,   2.0);   (470980.2, 3752479.8,
     504.0,   504.0,   2.0);
   (470980.4, 3752459.4,   504.6,   504.6,   2.0);   (470980.2, 3752433.2,
     505.4,   505.4,   2.0);
   (470980.1, 3752404.0,   506.0,   506.0,   2.0);   (470927.1, 3752402.7,
     504.9,   504.9,   2.0);
   (470907.9, 3752402.7,   503.1,   503.1,   2.0);   (470887.3, 3752402.7,
     500.9,   505.0,   2.0);
   (470869.7, 3752402.0,   500.7,   500.7,   2.0);   (470849.6, 3752401.9,
     500.3,   500.3,   2.0);

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( 470829.4, 3752402.2,      500.0,      500.0,       2.0);          ( 470811.6, 3752402.2,
499.7,      499.7,       2.0);
( 470791.5, 3752402.5,      499.2,      499.2,       2.0);          ( 470773.6, 3752401.9,
498.6,      498.6,       2.0);
( 470749.2, 3752402.2,      497.8,      497.8,       2.0);          ( 470727.7, 3752391.7,
497.8,      497.8,       2.0);
( 470733.0, 3752339.0,      499.9,      499.9,       2.0);          ( 470733.7, 3752320.5,
500.2,      500.2,       2.0);
( 470734.2, 3752291.0,      500.8,      500.8,       2.0);          ( 470733.2, 3752265.8,
500.8,      500.8,       2.0);
( 470732.9, 3752218.8,      501.2,      501.2,       2.0);          ( 470732.5, 3752182.1,
501.8,      501.8,       2.0);
( 470732.4, 3752145.3,      503.0,      503.0,       2.0);          ( 470692.4, 3752144.8,
502.5,      502.5,       2.0);
( 470670.1, 3752144.5,      502.1,      502.1,       2.0);          ( 470651.7, 3752144.3,
502.0,      502.0,       2.0);
( 470633.5, 3752144.1,      501.5,      501.5,       2.0);          ( 470615.5, 3752144.0,
500.9,      500.9,       2.0);
( 470596.0, 3752143.3,      500.2,      500.2,       2.0);          ( 470577.0, 3752143.5,
500.0,      500.0,       2.0);
( 470553.6, 3752143.5,      499.7,      499.7,       2.0);          ( 470528.6, 3752142.6,
498.8,      498.8,       2.0);
( 470508.0, 3752142.8,      497.6,      497.6,       2.0);          ( 470485.6, 3752142.5,
496.3,      496.3,       2.0);
( 470471.6, 3752131.6,      496.1,      496.1,       2.0);          ( 470471.6, 3752109.2,
497.3,      497.3,       2.0);
( 470471.3, 3752085.2,      498.1,      498.1,       2.0);          ( 470471.5, 3752037.7,
499.7,      499.7,       2.0);
( 470471.7, 3752013.0,      500.0,      500.0,       2.0);          ( 470470.9, 3751987.2,
500.1,      500.1,       2.0);
( 470470.9, 3751965.7,      500.1,      500.1,       2.0);          ( 470470.8, 3751944.4,
500.1,      500.1,       2.0);
( 470470.6, 3751924.3,      499.6,      499.6,       2.0);          ( 470470.5, 3751905.9,
499.0,      499.0,       2.0);
( 470470.9, 3751884.1,      499.1,      499.1,       2.0);          ( 470470.6, 3751864.0,
498.6,      498.6,       2.0);
( 470470.3, 3751844.0,      497.9,      497.9,       2.0);          ( 470470.2, 3751824.5,
496.6,      496.6,       2.0);
( 470470.3, 3751805.8,      495.7,      499.0,       2.0);          ( 470470.3, 3751788.0,
495.1,      502.0,       2.0);
( 470470.3, 3751761.2,      497.6,      497.6,       2.0);          ( 470471.0, 3751741.9,
499.5,      499.5,       2.0);
```
🖾 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                    PAGE   55
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                             *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)


```
( 470470.0, 3751722.8,      501.4,      501.4,       2.0);          ( 470470.2, 3751703.4,
503.3,      503.3,       2.0);
( 470470.2, 3751683.8,      504.9,      504.9,       2.0);          ( 470470.3, 3751664.3,
506.2,      506.2,       2.0);
( 470470.3, 3751642.4,      507.6,      507.6,       2.0);          ( 470470.5, 3751621.8,
508.5,      508.5,       2.0);
( 470470.2, 3751599.8,      509.0,      509.0,       2.0);          ( 470470.6, 3751578.8,
509.1,      509.1,       2.0);
( 470469.6, 3751555.9,      507.6,      507.6,       2.0);          ( 470470.0, 3751512.5,
504.8,      512.0,       2.0);
( 470468.6, 3751414.6,      501.8,      513.0,       2.0);          ( 470469.8, 3751385.2,
507.1,      513.0,       2.0);
```

```
( 470468.6, 3751358.9,    509.6,    509.6,    2.0);    ( 470462.9, 3751325.6,
511.9,    511.9,    2.0);
( 470462.0, 3751310.6,    512.6,    512.6,    2.0);    ( 470462.6, 3751296.6,
512.4,    512.4,    2.0);
( 470462.6, 3751283.3,    512.0,    512.0,    2.0);    ( 470462.6, 3751269.9,
511.1,    511.1,    2.0);
( 470462.9, 3751254.3,    509.6,    512.0,    2.0);    ( 470462.0, 3751240.7,
508.9,    508.9,    2.0);
( 470463.2, 3751227.6,    509.4,    509.4,    2.0);    ( 470756.4, 3751290.6,
507.7,    525.0,    2.0);
( 470797.7, 3751268.3,    507.7,    525.0,    2.0);    ( 470891.2, 3751226.4,
512.0,    512.0,    2.0);
( 470940.8, 3751191.8,    512.1,    512.1,    2.0);    ( 471000.6, 3750923.6,
523.8,    523.8,    2.0);
( 471029.3, 3750923.6,    523.7,    523.7,    2.0);    ( 471056.3, 3750923.9,
524.2,    542.0,    2.0);
( 471077.9, 3750924.4,    524.8,    543.0,    2.0);    ( 471097.6, 3750924.4,
525.7,    543.0,    2.0);
( 471118.2, 3750925.0,    528.0,    543.0,    2.0);    ( 471139.0, 3750927.4,
529.8,    543.0,    2.0);
( 471160.1, 3750928.8,    530.8,    543.0,    2.0);    ( 471181.1, 3750931.5,
532.3,    543.0,    2.0);
( 471201.7, 3750930.9,    533.3,    543.0,    2.0);    ( 471222.5, 3750931.5,
533.7,    543.0,    2.0);
( 471244.1, 3750931.2,    534.8,    543.0,    2.0);    ( 471264.4, 3750931.7,
535.7,    538.0,    2.0);
( 471284.4, 3750931.7,    536.5,    536.5,    2.0);    ( 471305.8, 3750931.7,
536.5,    536.5,    2.0);
( 471324.7, 3750930.9,    535.8,    535.8,    2.0);    ( 471343.0, 3750930.1,
534.9,    534.9,    2.0);
( 471363.9, 3750929.0,    534.7,    534.7,    2.0);    ( 471382.0, 3750928.8,
534.8,    534.8,    2.0);
( 471400.9, 3750928.2,    535.0,    535.0,    2.0);    ( 471421.1, 3750928.0,
535.4,    535.4,    2.0);
( 471440.6, 3750928.1,    535.6,    535.6,    2.0);    ( 471461.8, 3750927.4,
535.7,    535.7,    2.0);
( 471479.8, 3750927.9,    535.9,    535.9,    2.0);    ( 471499.7, 3750927.6,
536.2,    536.2,    2.0);
( 471519.3, 3750928.8,    536.6,    549.0,    2.0);    ( 471537.0, 3750929.6,
538.0,    549.0,    2.0);
( 471556.8, 3750930.9,    539.6,    549.0,    2.0);    ( 471580.7, 3750934.1,
541.7,    549.0,    2.0);
( 471624.0, 3750940.2,    545.0,    549.0,    2.0);    ( 471795.9, 3750950.1,
548.4,    548.4,    2.0);
( 471796.3, 3750967.9,    547.3,    547.3,    2.0);    ( 471796.7, 3750987.2,
545.3,    547.0,    2.0);
( 471797.5, 3751006.8,    542.7,    549.0,    2.0);    ( 471796.7, 3751025.3,
542.0,    547.0,    2.0);
( 471795.9, 3751046.4,    541.1,    541.1,    2.0);    ( 471796.7, 3751073.0,
540.1,    540.1,    2.0);
( 471797.5, 3751143.8,    537.7,    537.7,    2.0);    ( 471833.0, 3751143.8,
537.0,    537.0,    2.0);
( 471867.4, 3751144.0,    534.9,    534.9,    2.0);    ( 471891.0, 3751144.4,
532.9,    532.9,    2.0);
( 471916.6, 3751144.2,    530.9,    530.9,    2.0);    ( 471939.5, 3751144.2,
529.4,    529.4,    2.0);
( 471963.1, 3751144.4,    525.8,    535.0,    2.0);    ( 471984.2, 3751144.0,
524.4,    533.0,    2.0);
( 471999.0, 3751163.4,    525.3,    536.0,    2.0);    ( 472000.2, 3751199.1,
530.8,    530.8,    2.0);
( 471999.8, 3751230.6,    532.9,    532.9,    2.0);    ( 472000.4, 3751251.5,
534.3,    534.3,    2.0);
( 472000.2, 3751281.1,    536.2,    536.2,    2.0);    ( 472002.0, 3751347.9,
537.0,    537.0,    2.0);
( 472036.9, 3751348.5,    536.6,    536.6,    2.0);    ( 472063.1, 3751349.3,
536.5,    536.5,    2.0);
```

```
( 472084.6, 3751348.3,     535.8,     535.8,     2.0);          ( 472104.9, 3751348.7,
534.6,     534.6,     2.0);
( 472127.3, 3751348.5,     533.0,     533.0,     2.0);          ( 472150.8, 3751349.7,
531.4,     531.4,     2.0);
( 472171.5, 3751349.5,     530.3,     530.3,     2.0);          ( 472194.1, 3751349.1,
528.2,     531.0,     2.0);
( 472222.6, 3751348.7,     525.4,     536.0,     2.0);          ( 472247.8, 3751349.5,
523.2,     536.0,     2.0);
( 472269.7, 3751349.1,     520.9,     536.0,     2.0);          ( 472290.4, 3751350.3,
520.7,     535.0,     2.0);
( 472313.6, 3751350.5,     520.9,     532.0,     2.0);          ( 472333.8, 3751351.3,
520.6,     532.0,     2.0);
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                       PAGE 56
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                 *** DISCRETE CARTESIAN RECEPTORS ***
                                 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

```
( 472354.8, 3751351.3,     518.5,     532.0,     2.0);          ( 472377.7, 3751351.1,
516.0,     532.0,     2.0);
( 472401.7, 3751351.1,     513.6,     533.0,     2.0);          ( 472425.5, 3751351.8,
511.8,     532.0,     2.0);
( 472445.7, 3751350.7,     511.1,     532.0,     2.0);          ( 472463.2, 3751350.9,
509.4,     532.0,     2.0);
( 472484.1, 3751350.9,     507.3,     532.0,     2.0);          ( 472503.9, 3751351.3,
506.3,     532.0,     2.0);
( 472523.8, 3751351.3,     506.2,     531.0,     2.0);          ( 472543.3, 3751351.3,
506.4,     506.4,     2.0);
( 472563.2, 3751352.2,     506.1,     506.1,     2.0);          ( 472582.6, 3751352.0,
505.8,     505.8,     2.0);
( 472601.3, 3751352.0,     505.3,     505.3,     2.0);          ( 472606.8, 3751367.3,
504.3,     504.3,     2.0);
( 472607.6, 3751396.4,     504.2,     504.2,     2.0);          ( 472608.5, 3751432.1,
505.0,     505.0,     2.0);
( 472608.9, 3751462.6,     504.4,     504.4,     2.0);          ( 472609.5, 3751497.1,
505.0,     505.0,     2.0);
( 472610.7, 3751553.8,     505.4,     505.4,     2.0);          ( 472666.0, 3751554.0,
501.3,     501.3,     2.0);
( 472690.4, 3751553.6,     499.8,     499.8,     2.0);          ( 472713.5, 3751554.3,
499.2,     499.2,     2.0);
( 472734.6, 3751554.0,     497.9,     497.9,     2.0);          ( 472759.5, 3751554.0,
496.2,     496.2,     2.0);
( 472781.8, 3751554.5,     494.9,     499.0,     2.0);          ( 472849.8, 3751556.1,
495.4,     495.4,     2.0);
( 472871.8, 3751556.1,     494.9,     494.9,     2.0);          ( 472895.2, 3751555.6,
494.2,     494.2,     2.0);
( 472922.6, 3751555.9,     493.8,     493.8,     2.0);          ( 473092.4, 3751802.3,
486.1,     486.1,     2.0);
( 473204.8, 3751856.8,     481.6,     481.6,     2.0);          ( 472991.2, 3752083.3,
484.1,     484.1,     2.0);
( 473295.1, 3752052.5,     478.7,     478.7,     2.0);          ( 473356.8, 3752050.3,
476.8,     476.8,     2.0);
( 473495.1, 3751996.6,     476.0,     476.0,     2.0);          ( 473486.5, 3751917.7,
475.8,     475.8,     2.0);
( 473392.6, 3752058.2,     475.9,     475.9,     2.0);          ( 473464.3, 3752082.6,
475.2,     475.2,     2.0);
( 473550.3, 3752087.6,     473.0,     473.0,     2.0);          ( 473584.7, 3752089.8,
473.0,     473.0,     2.0);
( 472765.6, 3752474.1,     477.2,     495.0,     2.0);          ( 470432.2, 3750483.9,
532.6,     532.6,     2.0);
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( 469244.1, 3754182.8,     471.3,     485.0,     2.0);     ( 469596.8, 3750785.6,
493.4,     493.4,     2.0);
( 470466.5, 3750530.3,     535.0,     535.0,     2.0);     ( 469319.3, 3749244.5,
500.0,     500.0,     2.0);
( 469229.6, 3749502.2,     503.4,     503.4,     2.0);     ( 468465.4, 3749582.3,
490.5,     490.5,     2.0);
( 471438.4, 3750129.8,     539.2,     539.2,     2.0);     ( 471657.5, 3749918.8,
535.4,     535.4,     2.0);
( 471732.9, 3749916.5,     534.7,     534.7,     2.0);     ( 471710.3, 3750132.8,
537.0,     537.0,     2.0);
( 471273.9, 3750119.8,     540.5,     540.5,
2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                 PAGE 57
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                         (1=YES; 0=NO)

       1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                      ***
                                      (METERS/SEC)

                       1.54, 3.09, 5.14, 8.23, 10.80,

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                 PAGE 58
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

```
   Profile format:
   FREE

   Surface station no.:    3171                    Upper air station no.:     3190
              Name: UNKNOWN                                    Name:
              UNKNOWN
              Year:    2012                                    Year:    2012

 First 24 hours of scalar data
 YR MO DY JDY HR    H0      U*      W*   DT/DZ ZICNV ZIMCH   M-O LEN    Z0  BOWEN ALBEDO   REF WS
 WD     HT   REF TA    HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.      77.9 0.15   2.40   1.00     2.93
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.      84.7 0.15   2.40   1.00     3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.      53.5 0.15   2.40   1.00     2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.      56.8 0.15   2.40   1.00     2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.      46.8 0.15   2.40   1.00     2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.      32.1 0.15   2.40   1.00     1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.      33.2 0.15   2.40   1.00     1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.      36.1 0.15   2.40   0.53     1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.     -28.1 0.15   2.40   0.31     2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.     -11.8 0.15   2.40   0.24     1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.     -35.6 0.15   2.40   0.21     3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.     -18.4 0.15   2.40   0.20     2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.     -14.2 0.15   2.40   0.20     2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.     -29.5 0.15   2.40   0.22     3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.     -47.2 0.15   2.40   0.25     3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.    -145.8 0.15   2.40   0.34     3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.      84.0 0.15   2.40   0.62     3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.      57.8 0.15   2.40   1.00     2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.      45.6 0.15   2.40   1.00     2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.      52.2 0.15   2.40   1.00     2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.      46.9 0.15   2.40   1.00     2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.      39.8 0.15   2.40   1.00     2.13
 78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.      49.0 0.15   2.40   1.00     2.35
 52.   10.1  289.2    2.0
 12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.      37.0 0.15   2.40   1.00     2.06
 75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
```

```
 12 01 01 01   10.1 1   55.    2.93    288.2   99.0  -99.00  -99.00
```

 F indicates top of profile (=1) or below (=0)
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                  VOL3   , VOL4   , VOL5   ,
                    VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                    VOL11   , VOL12   , VOL13   ,
                    VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                    VOL19   , VOL20   , VOL21   ,
                    VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                    VOL27   , VOL28   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF NOX   IN
                            MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
      (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
      472283.74   3752640.98   28.70168   (13112916)   472482.23
      3752398.04   16.45201   (14111116)
      472477.97   3752183.12   19.12483   (12121716)   472148.10
      3752531.53   53.24719   (13112916)
      472052.12   3752531.22   63.68338   (13112916)   471975.52
      3752531.22   48.31432   (13112916)
      471896.06   3752530.90   48.09142   (13112916)   471840.76
      3752529.94   47.56628   (13112916)
      471816.60   3752527.08   45.73029   (13112916)   471736.82
      3752557.91   50.88560   (13112916)
      471696.59   3752558.87   55.43655   (13112916)   471627.29
      3752556.22   54.12959   (13112916)
      471584.60   3752556.76   47.01211   (13112916)   471560.01
      3752556.22   43.21440   (13112916)
      471534.35   3752554.87   40.98233   (13112916)   471514.89
      3752554.87   40.63023   (13112916)
      471486.79   3752555.68   42.05500   (13112916)   471465.72
      3752555.41   43.23654   (13112916)
      471442.21   3752554.98   43.29293   (13112916)   471419.71
      3752552.46   42.80036   (13112916)
      471394.22   3752552.91   41.28194   (13112916)   471363.44
      3752552.46   39.63236   (13112916)
      471332.68   3752553.31   39.26114   (13112916)   471307.62
      3752552.94   40.61749   (13112916)
      471284.05   3752552.70   42.87469   (13112916)   471261.98
      3752552.70   44.93392   (13112916)
      471241.90   3752552.70   46.19229   (13112916)   471223.15
      3752552.86   46.63624   (13112916)
      471205.90   3752552.86   46.39544   (13112916)   471173.21
      3752552.37   44.06094   (13112916)
      471135.70   3752552.53   36.75506   (13112916)   471093.22
      3752551.54   35.66256   (14021809)
      471059.37   3752551.70   36.50954   (14021809)   471020.54
      3752551.20   32.87810   (14021809)
      470981.05   3752563.65   25.26580   (14021809)   470980.39

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                3752552.20           25.88154  (14021809)
       470980.06   3752535.61          26.83785  (14021809)             470979.89
                3752517.19           27.86430  (14021809)
       470980.06   3752499.76          29.78367  (13021809)             470980.22
                3752479.85           32.83141  (16120116)
       470980.39   3752459.44          35.75358  (13112716)             470980.22
                3752433.22           40.80755  (13112716)
       470980.06   3752404.02          42.85332  (15021709)             470927.12
                3752402.69           28.86368  (13112716)
       470907.87   3752402.69          26.08817  (13112716)             470887.30
                3752402.69           23.65317  (13112716)
       470869.71   3752402.03          21.99874  (13112716)             470849.63
                3752401.86           20.40128  (13112716)
       470829.39   3752402.19          19.02864  (13112716)             470811.63
                3752402.19           17.97603  (13112716)
       470791.55   3752402.53          16.92152  (13112716)             470773.63
                3752401.86           16.08343  (13112716)
       470749.24   3752402.19          15.06874  (13112716)             470727.72
                3752391.74           14.30930  (13112716)
       470733.04   3752338.97          14.41685  (13112716)             470733.70
                3752320.55           14.36778  (13112716)
       470734.20   3752291.01          14.27285  (13112716)             470733.20
                3752265.78           14.17572  (15021709)
       470732.87   3752218.81          14.36427  (15021709)             470732.54
                3752182.14           14.44976  (15021709)
       470732.37   3752145.29          14.55873  (15021709)             470692.38
                3752144.80           13.41520  (15021709)
       470670.14   3752144.46          12.87341  (15021709)             470651.72
                3752144.30           12.46430  (15021709)
       470633.46   3752144.13          12.09284  (15021709)             470615.54
                3752143.97           11.75553  (15021709)
       470595.95   3752143.30          11.41619  (15021709)             470577.03
                3752143.47           11.10732  (15021709)
       470553.63   3752143.47          10.75483  (15021709)             470528.57
                3752142.64           10.41370  (15021709)
       470507.99   3752142.80          10.15078  (15021709)             470485.59
                3752142.47            9.88583  (15021709)
       470471.60   3752131.63           9.78569  (15021709)             470471.60
                3752109.21            9.90826  (15021709)
       470471.32   3752085.22          10.04623  (15021709)             470471.46
                3752037.68           10.37006  (15021709)
       470471.74   3752013.00          10.56528  (15021709)             470470.89
                3751987.18           10.76894  (15021709)
       470470.89   3751965.74          10.95095  (15021709)             470470.75
                3751944.44           11.12680  (15021709)
```
 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                  PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                             VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***
```

```
   X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD
       (M)         CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      470470.61   3751924.27      11.28366   (15021709)           470470.47
    3751905.93      11.41188   (15021709)
      470470.89   3751884.06      11.54955   (15021709)           470470.61
    3751864.03      11.63667   (15021709)
      470470.33   3751844.00      11.69270   (15021709)           470470.19
    3751824.53      11.71771   (15021709)
      470470.33   3751805.77      11.71788   (15021709)           470470.33
    3751788.00      11.69210   (15021709)
      470470.33   3751761.19      11.62105   (15021709)           470471.03
    3751741.87      11.55600   (15021709)
      470470.05   3751722.82      11.44888   (15021709)           470470.19
    3751703.36      11.34438   (15021709)
      470470.19   3751683.75      11.22694   (15021709)           470470.33
    3751664.28      11.16975   (14123016)
      470470.33   3751642.41      11.24715   (14123016)           470470.47
    3751621.82      11.29356   (14123016)
      470470.19   3751599.81      11.30997   (14123016)           470470.61
    3751578.79      11.31027   (14123016)
      470469.62   3751555.94      11.23447   (14123016)           470470.05
    3751512.49      11.05425   (14123016)
      470468.64   3751414.59      10.39448   (14123016)           470469.76
    3751385.25      10.37633   (14123016)
      470468.65   3751358.95      10.17304   (14123016)           470462.93
    3751325.56       9.83435   (12121315)
      470461.98   3751310.62       9.80349   (12121315)           470462.61
    3751296.63       9.79801   (12121315)
      470462.61   3751283.28       9.78238   (12121315)           470462.61
    3751269.92       9.76485   (12121315)
      470462.93   3751254.35       9.74425   (12121315)           470461.98
    3751240.67       9.70127   (12121315)
      470463.25   3751227.64       9.68244   (12121315)           470756.39
    3751290.59      15.98620   (12121315)
      470797.72   3751268.33      16.86584   (12121315)           470891.19
    3751226.38      19.53535   (12012316)
      470940.78   3751191.82      20.48834   (14020616)           471000.61
    3750923.63      18.48316   (12012316)
      471029.26   3750923.63      18.71675   (12012316)           471056.29
    3750923.90      18.67945   (12012316)
      471077.91   3750924.44      18.47960   (12012316)           471097.64
    3750924.44      18.13028   (12012316)
      471118.18   3750924.98      18.17747   (16112816)           471138.99
    3750927.42      19.83276   (16112816)
      471160.07   3750928.77      21.68828   (16112816)           471181.15
    3750931.47      24.68187   (12121316)
      471201.69   3750930.93      28.54922   (12121316)           471222.50
    3750931.47      28.04726   (12121316)
      471244.13   3750931.20      29.95430   (16112816)           471264.40
    3750931.74      31.61434   (16112816)
      471284.40   3750931.74      32.73890   (16112816)           471305.75
    3750931.74      33.30715   (16112816)
      471324.67   3750930.93      33.11923   (16112816)           471343.05
    3750930.12      32.43132   (16112816)
      471363.86   3750929.04      31.19745   (16112816)           471381.96
    3750928.77      29.94334   (16112816)
      471400.88   3750928.23      28.57657   (16112816)           471421.15
    3750927.96      27.27669   (16112816)
      471440.59   3750928.11      26.37253   (16112816)           471461.83
    3750927.45      25.79793   (16112816)
      471479.76   3750927.95      25.67176   (16112816)           471499.68
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            3750927.62       25.75434  (16112816)
  471519.26   3750928.78       26.01914  (16112816)              471537.02
            3750929.61       26.19024  (16112816)
  471556.77   3750930.94       26.26106  (16112816)              471580.68
            3750934.09       26.10095  (16112816)
  471624.00   3750940.23       26.15599  (15122816)              471795.90
            3750950.11       20.26626  (15122816)
  471796.29   3750967.88       20.46931  (15122816)              471796.69
            3750987.22       20.56793  (15122816)
  471797.47   3751006.75       20.42806  (15122816)              471796.69
            3751025.30       20.67946  (15122816)
  471795.90   3751046.40       20.48285  (15122816)              471796.69
            3751072.96       20.44566  (16112816)
  471797.47   3751143.85       23.74486  (12121716)              471833.01
            3751143.85       23.93177  (12121716)
  471867.38   3751144.05       23.84990  (12121716)              471891.02
            3751144.44       23.63340  (12121716)
  471916.60   3751144.24       23.16369  (12121716)              471939.45
            3751144.24       22.68737  (12121716)
  471963.08   3751144.44       21.97297  (12121716)              471984.17
            3751144.05       21.51395  (12121716)
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                         *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF NOX   IN
                         MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
      (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
     471999.02   3751163.38   22.66003 (12121716)   472000.19
            3751199.12   24.97493 (12121716)
     471999.80   3751230.56   26.22903 (12121716)   472000.38
            3751251.46   26.76457 (12121716)
     472000.19   3751281.15   27.50763 (12121716)   472001.95
            3751347.94   30.04862 (12121716)
     472036.90   3751348.52   28.51485 (12121716)   472063.07
            3751349.31   27.47083 (12121716)
     472084.56   3751348.33   26.65030 (12121716)   472104.87
            3751348.72   25.98297 (12121716)
     472127.33   3751348.52   25.24234 (12121716)   472150.76
            3751349.70   24.55007 (12121716)
     472171.47   3751349.50   23.88979 (12121716)   472194.12
            3751349.11   23.16767 (12121716)
     472222.63   3751348.72   22.38388 (12121716)   472247.83
            3751349.50   21.72786 (12121716)
     472269.70   3751349.11   21.16053 (12121716)   472290.40

```
         3751350.28        20.69949  (12121716)
472313.64   3751350.48        20.17623  (12121716)                    472333.76
         3751351.26        19.75336  (12121716)
472354.85   3751351.26        19.28601  (12121716)                    472377.70
         3751351.06        18.78106  (12121716)
472401.72   3751351.06        18.27797  (12121716)                    472425.55
         3751351.84        17.82646  (12121716)
472445.67   3751350.67        17.43986  (12121716)                    472463.24
         3751350.87        17.11746  (12121716)
472484.14   3751350.87        16.73794  (12121716)                    472503.87
         3751351.26        16.41555  (12121716)
472523.79   3751351.26        16.11389  (12121716)                    472543.32
         3751351.26        15.83222  (12121716)
472563.24   3751352.24        15.55932  (12121716)                    472582.57
         3751352.04        15.28758  (12121716)
472601.32   3751352.04        15.03537  (12121716)                    472606.79
         3751367.27        15.15185  (12121716)
472607.57   3751396.37        15.54235  (12121716)                    472608.55
         3751432.11        16.09523  (12121716)
472608.94   3751462.58        16.65014  (12121716)                    472609.52
         3751497.15        17.51357  (12121716)
472610.70   3751553.78        19.77338  (12121716)                    472665.97
         3751553.98        19.44146  (12121716)
472690.38   3751553.59        19.30424  (12121716)                    472713.50
         3751554.27        19.25630  (12121716)
472734.64   3751554.04        19.14416  (12121716)                    472759.46
         3751554.04        19.02463  (12121716)
472781.75   3751554.50        18.95348  (12121716)                    472849.76
         3751556.11        18.85530  (12121716)
472871.82   3751556.11        18.75542  (12121716)                    472895.25
         3751555.65        18.60845  (12121716)
472922.60   3751555.88        18.47712  (12121716)                    473092.41
         3751802.31        33.18908  (12121716)
473204.80   3751856.81        22.71857  (12121716)                    472991.21
         3752083.31        24.18137  (13112916)
473295.12   3752052.49        11.97043  (14111116)                    473356.76
         3752050.34        10.22036  (14111116)
473495.10   3751996.58        10.14243  (13112016)                    473486.50
         3751917.74        12.30564  (13112016)
473392.60   3752058.22         9.48234  (14111116)                    473464.28
         3752082.59         8.37089  (14111116)
473550.29   3752087.61         7.34782  (13121916)                    473584.69
         3752089.76         7.11598  (13121916)
472765.59   3752474.09        10.20647  (14111116)                    470432.16
         3750483.93        16.78802  (12121316)
469244.06   3754182.82         3.51999  (14020709)                    469596.75
         3750785.65         5.31479  (14101709)
470466.55   3750530.27        18.57127  (12121316)                    469319.29
         3749244.53         4.24908  (14121709)
469229.64   3749502.19         4.06115  (15122209)                    468465.38
         3749582.33         4.15614  (12011709)
471438.37   3750129.76        12.37437  (15122816)                    471657.54
         3749918.78         9.16903  (15122816)
471732.91   3749916.52         8.42056  (15122816)                    471710.30
         3750132.80        10.20921  (15122816)
471273.89   3750119.77        10.55182
         (15122816)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:40:00

                    PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```
                                           DATE
                                                             NETWORK
GROUP ID                        AVERAGE CONC     (YYMMDDHH)     RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -


ALL      HIGH   1ST HIGH VALUE IS      63.68338  ON 13112916: AT (  472052.12,  3752531.22,
499.36,    512.00,    2.00)  DC



  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
```
 *** AERMET - VERSION  16216 ***
 ***                                                 ***        09:40:00


               PAGE  63
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
            ***   NONE  ***



    ********   WARNING MESSAGES   ********
 ME W186     881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


    **********************************
    *** AERMOD Finishes Successfully ***
    **********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM10\14064 Cons
PM10.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM10.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407       510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600       512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393       518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565       516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227       515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605       513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984       512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060       521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682       520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262       526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262       527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469       518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737       509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020       516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546       521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132       529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546       534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965       533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344       527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041       538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829       536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208       528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001       524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890       515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890       518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759       520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759       525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077       534.860
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        LOCATION VOL29          VOLUME     471577.888  3751616.698      529.000
        LOCATION VOL30          VOLUME     471724.580  3751620.663      533.750
        LOCATION VOL31          VOLUME     471941.049  3751865.677      534.600
        LOCATION VOL32          VOLUME     471795.151  3751684.890      537.260
        LOCATION VOL33          VOLUME     471577.888  3751434.325      531.060
        LOCATION VOL34          VOLUME     471389.965  3751431.946      537.260
        LOCATION VOL35          VOLUME     471202.041  3751467.628      526.830
        LOCATION VOL36          VOLUME     471065.657  3751504.895      521.960
        LOCATION VOL37          VOLUME     471656.388  3751514.411      529.480
        LOCATION VOL38          VOLUME     471522.384  3751324.108      529.000
        LOCATION VOL39          VOLUME     471332.874  3751322.522      529.530
        LOCATION VOL40          VOLUME     471282.920  3751321.729      528.170
        LOCATION VOL41          VOLUME     471233.758  3751388.335      528.470
        LOCATION VOL42          VOLUME     472135.642  3751845.064      525.790
        LOCATION VOL43          VOLUME     472323.361  3751843.460      510.520
        LOCATION VOL44          VOLUME     472512.544  3751852.284      501.450
        LOCATION VOL45          VOLUME     472698.022  3751875.469      491.390
        LOCATION VOL46          VOLUME     472880.772  3751928.657      487.900
        LOCATION VOL47          VOLUME     472608.011  3752044.580      498.520
        LOCATION VOL48          VOLUME     471084.506  3752407.221      506.810
        LOCATION PAREA1         AREAPOLY   470984.533  3751406.024      515.330
** Source Parameters **
        SRCPARAM VOL1           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL2           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL3           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL4           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL5           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL6           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL7           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL8           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL9           0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL10          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL11          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL12          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL13          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL14          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL15          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL16          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL17          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL18          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL19          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL20          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL21          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL22          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL23          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL24          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL25          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL26          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL27          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL28          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL29          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL30          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL31          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL32          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL33          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL34          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL35          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL36          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL37          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL38          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL39          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL40          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL41          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL42          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL43          0.0045772668      5.000      43.702     1.400
        SRCPARAM VOL44          0.0045772668      5.000      43.702     1.400
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SRCPARAM VOL45          0.0045772668      5.000      43.702      1.400
SRCPARAM VOL46          0.0045772668      5.000      43.702      1.400
SRCPARAM VOL47          0.0045772668      5.000      43.702      1.400
SRCPARAM VOL48          0.0045772668      5.000      43.702      1.400
SRCPARAM PAREA1         5.9703E-07        0.000      33          1.000
AREAVERT PAREA1         470984.533 3751406.024 470977.851 3751426.069
AREAVERT PAREA1         470961.147 3751427.739 470880.967 3751684.984
AREAVERT PAREA1         470872.615 3751733.426 470869.274 3751801.913
AREAVERT PAREA1         470885.978 3751888.775 470912.705 3751970.626
AREAVERT PAREA1         470962.818 3752102.589 470972.840 3752174.417
AREAVERT PAREA1         470974.511 3752314.732 470999.567 3752316.403
AREAVERT PAREA1         471001.237 3752498.478 471078.077 3752500.149
AREAVERT PAREA1         471078.077 3752465.070 471701.143 3752466.740
AREAVERT PAREA1         471702.814 3752436.673 472100.373 3752443.354
AREAVERT PAREA1         472095.362 3751942.229 472521.319 3751948.910
AREAVERT PAREA1         472517.978 3752139.338 472700.054 3752139.338
AREAVERT PAREA1         472705.065 3751973.967 472935.583 3752014.057
AREAVERT PAREA1         472963.980 3751842.003 472753.507 3751786.880
AREAVERT PAREA1         472599.829 3751766.834 472369.311 3751755.142
AREAVERT PAREA1         472160.508 3751753.471 472005.159 3751771.846
AREAVERT PAREA1         471585.884 3751228.959 471189.995 3751228.959
AREAVERT PAREA1         471083.088 3751419.387
URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL4          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL5          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL6          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL8           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL9           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL9           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL10          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL10          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL11          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL11          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL12          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL12          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL12          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL12          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL12          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL13         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL14         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL15         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL16         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL17       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL18       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL18       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL19       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL19       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL20       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL20       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL21       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL21       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL21       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL22         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL23         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL24         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL25         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
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      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL30          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL31          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL32          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL33          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL34          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL34          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL34         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL35         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL36         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL37         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL38         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
```

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    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL43           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL44           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL44           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL45           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL45           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL46           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL46           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL47           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL47           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL47           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM10.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
```

```
      RECTABLE ALLAVE 1ST
      RECTABLE 24 1ST
** Auto-Generated Plotfiles
      PLOTFILE 24 ALL 1ST "14064 CONS PM10.AD\24H1GALL.PLT" 31
      SUMMFILE "14064 Cons PM10.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
               ***   NONE   ***


     ********    WARNING MESSAGES    ********
 ME W186      915        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187      915        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET – VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE   1
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -
- - - - - - - - - - - - - - - -

** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE = F
     * Model Uses NO WET DEPLETION. WETDPLT = F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   49 Source(s),
       for Total of   1 Urban Area(s):
   Urban Population =   2189641.0 ; Urban Roughness Length = 1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   – Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_10

 **Model Calculates 1 Short Term Average(s) of: 24-HR

 **This Run Includes: 49 Source(s);   1 Source Group(s); and   233 Receptor(s)

```
                 with:      0 POINT(s), including
                            0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      48 VOLUME source(s)
                 and:       1 AREA type source(s)
                 and:       0 LINE source(s)
                 and:       0 RLINE/RLINEXT source(s)
                 and:       0 OPENPIT source(s)
                 and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                            ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.


**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Cons
PM10.err
**File for Summary of Results:   14064 Cons
PM10.sum
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***       09:43:14

                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                              *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                  BASE     RELEASE    INIT.     INIT.
            URBAN   EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)    X        Y      ELEV.    HEIGHT     SY        SZ
  SOURCE   SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


VOL1            0   0.45773E-02  471175.5 3752366.4   510.2     5.00     43.70     1.40
YES    HRDOW
VOL2            0   0.45773E-02  471362.2 3752367.6   512.4     5.00     43.70     1.40
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YES    HRDOW
VOL3           0   0.45773E-02   471550.1 3752368.4   518.9    5.00    43.70    1.40
YES    HRDOW
VOL4           0   0.45773E-02   471609.6 3752371.6   516.0    5.00    43.70    1.40
YES    HRDOW
VOL5           0   0.45773E-02   471796.7 3752342.2   515.1    5.00    43.70    1.40
YES    HRDOW
VOL6           0   0.45773E-02   471984.7 3752344.6   513.6    5.00    43.70    1.40
YES    HRDOW
VOL7           0   0.45773E-02   472003.7 3752347.0   512.1    5.00    43.70    1.40
YES    HRDOW
VOL8           0   0.45773E-02   472002.9 3752159.1   521.6    5.00    43.70    1.40
YES    HRDOW
VOL9           0   0.45773E-02   471814.2 3752156.7   520.7    5.00    43.70    1.40
YES    HRDOW
VOL10          0   0.45773E-02   471628.6 3752181.3   526.8    5.00    43.70    1.40
YES    HRDOW
VOL11          0   0.45773E-02   471440.7 3752181.3   527.4    5.00    43.70    1.40
YES    HRDOW
VOL12          0   0.45773E-02   471253.6 3752180.5   518.9    5.00    43.70    1.40
YES    HRDOW
VOL13          0   0.45773E-02   471092.6 3752217.7   509.6    5.00    43.70    1.40
YES    HRDOW
VOL14          0   0.45773E-02   471074.4 3752029.0   516.1    5.00    43.70    1.40
YES    HRDOW
VOL15          0   0.45773E-02   471263.9 3751992.5   521.1    5.00    43.70    1.40
YES    HRDOW
VOL16          0   0.45773E-02   471452.6 3751994.1   530.0    5.00    43.70    1.40
YES    HRDOW
VOL17          0   0.45773E-02   471640.5 3751992.5   534.9    5.00    43.70    1.40
YES    HRDOW
VOL18          0   0.45773E-02   471827.7 3751968.0   533.0    5.00    43.70    1.40
YES    HRDOW
VOL19          0   0.45773E-02   472002.9 3751970.3   527.9    5.00    43.70    1.40
YES    HRDOW
VOL20          0   0.45773E-02   471845.1 3751780.0   538.8    5.00    43.70    1.40
YES    HRDOW
VOL21          0   0.45773E-02   471657.2 3751803.8   536.0    5.00    43.70    1.40
YES    HRDOW
VOL22          0   0.45773E-02   471468.5 3751806.2   528.3    5.00    43.70    1.40
YES    HRDOW
VOL23          0   0.45773E-02   471280.5 3751807.0   525.0    5.00    43.70    1.40
YES    HRDOW
VOL24          0   0.45773E-02   471093.4 3751841.9   515.6    5.00    43.70    1.40
YES    HRDOW
VOL25          0   0.45773E-02   470978.4 3751841.9   518.1    5.00    43.70    1.40
YES    HRDOW
VOL26          0   0.45773E-02   471014.1 3751654.8   520.4    5.00    43.70    1.40
YES    HRDOW
VOL27          0   0.45773E-02   471201.2 3751654.8   525.1    5.00    43.70    1.40
YES    HRDOW
VOL28          0   0.45773E-02   471389.2 3751619.1   534.9    5.00    43.70    1.40
YES    HRDOW
VOL29          0   0.45773E-02   471577.9 3751616.7   529.0    5.00    43.70    1.40
YES    HRDOW
VOL30          0   0.45773E-02   471724.6 3751620.7   533.8    5.00    43.70    1.40
YES    HRDOW
VOL31          0   0.45773E-02   471941.0 3751865.7   534.6    5.00    43.70    1.40
YES    HRDOW
VOL32          0   0.45773E-02   471795.2 3751684.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL33          0   0.45773E-02   471577.9 3751434.3   531.1    5.00    43.70    1.40
YES    HRDOW
VOL34          0   0.45773E-02   471390.0 3751431.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL35          0   0.45773E-02   471202.0 3751467.6   526.8    5.00    43.70    1.40
```

```
YES   HRDOW
VOL36              0   0.45773E-02  471065.7 3751504.9   522.0    5.00    43.70    1.40
YES   HRDOW
VOL37              0   0.45773E-02  471656.4 3751514.4   529.5    5.00    43.70    1.40
YES   HRDOW
VOL38              0   0.45773E-02  471522.4 3751324.1   529.0    5.00    43.70    1.40
YES   HRDOW
VOL39              0   0.45773E-02  471332.9 3751322.5   529.5    5.00    43.70    1.40
YES   HRDOW
VOL40              0   0.45773E-02  471282.9 3751321.7   528.2    5.00    43.70    1.40
YES   HRDOW
```

 ▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.45773E-02	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES HRDOW								
VOL42	0	0.45773E-02	472135.6	3751845.1	525.8	5.00	43.70	1.40
YES HRDOW								
VOL43	0	0.45773E-02	472323.4	3751843.5	510.5	5.00	43.70	1.40
YES HRDOW								
VOL44	0	0.45773E-02	472512.5	3751852.3	501.4	5.00	43.70	1.40
YES HRDOW								
VOL45	0	0.45773E-02	472698.0	3751875.5	491.4	5.00	43.70	1.40
YES HRDOW								
VOL46	0	0.45773E-02	472880.8	3751928.7	487.9	5.00	43.70	1.40
YES HRDOW								
VOL47	0	0.45773E-02	472608.0	3752044.6	498.5	5.00	43.70	1.40
YES HRDOW								
VOL48	0	0.45773E-02	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES HRDOW								

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** AREAPOLY SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC /METER**2) VARY BY	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)

```
 PAREA1              0   0.59703E-06   470984.5 3751406.0   515.3     0.00      33           1.00
 YES   HRDOW
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***          09:43:14

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                   *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                            SOURCE IDs
 -----------                                            ----------


  ALL         VOL1      , VOL2      , VOL3      , VOL4      , VOL5      , VOL6      ,
  VOL7        , VOL8      ,

              VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
              VOL15     , VOL16     ,

              VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
              VOL23     , VOL24     ,

              VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
              VOL31     , VOL32     ,

              VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
              VOL39     , VOL40     ,

              VOL41     , VOL42     , VOL43     , VOL44     , VOL45     , VOL46     ,
              VOL47     , VOL48     ,

              PAREA1     ,
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                   *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


             2189641.  VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
             VOL6      , VOL7      ,
 VOL8        ,

             VOL9      , VOL10     , VOL11     , VOL12     , VOL13     , VOL14     ,
             VOL15     , VOL16     ,

             VOL17     , VOL18     , VOL19     , VOL20     , VOL21     , VOL22     ,
             VOL23     , VOL24     ,

             VOL25     , VOL26     , VOL27     , VOL28     , VOL29     , VOL30     ,
             VOL31     , VOL32     ,

             VOL33     , VOL34     , VOL35     , VOL36     , VOL37     , VOL38     ,
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                  VOL39        , VOL40        ,

                  VOL41        , VOL42        , VOL43        , VOL44        , VOL45        , VOL46        ,
                  VOL47        , VOL48        ,

                  PAREA1       ,
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```

   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00

▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00

▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

```
 - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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    *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***          10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                                      ***        09:43:14
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL5          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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    *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***          10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                                      ***        09:43:14
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL6   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 [FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

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      .0000E+00   23  .0000E+00   24  .0000E+00
```
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▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        09:43:14
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                      PAGE  14
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL8        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
```
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        09:43:14
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                      PAGE  15
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL9        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL10   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL11   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 18
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :

```
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

█▀ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

█▀ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:43:14

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
🈁 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
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Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                          DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

FF*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
```

FF*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE 33
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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 ▞▞ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***      09:43:14
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                 PAGE  34
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
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 ▞▞ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***      09:43:14
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                 PAGE  35
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR    HOUR   SCALAR    HOUR   SCALAR
```

- -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                   PAGE   36
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                   PAGE   37

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL31       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL32       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .00D00E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                     PAGE 39
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
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                     PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL34       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
```

```
      .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
    .0000E+00    23   .0000E+00    24   .0000E+00
                                    DAY OF WEEK = SUNDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
    .0000E+00     7   .0000E+00     8   .0000E+00
    9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
    .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
    .0000E+00    23   .0000E+00    24   .0000E+00
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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
    .0000E+00   7   .0000E+00   8   .0000E+00
    9   .1000E+01   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
    .1000E+01   15   .1000E+01   16   .1000E+01
   17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
    .0000E+00   23   .0000E+00   24   .0000E+00
                                    DAY OF WEEK = SATURDAY
    1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
    .0000E+00   7   .0000E+00   8   .0000E+00
    9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
    .0000E+00   15   .0000E+00   16   .0000E+00
   17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
    .0000E+00   23   .0000E+00   24   .0000E+00
                                    DAY OF WEEK = SUNDAY
    1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
    .0000E+00   7   .0000E+00   8   .0000E+00
    9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
    .0000E+00   15   .0000E+00   16   .0000E+00
   17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
    .0000E+00   23   .0000E+00   24   .0000E+00
```

▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        09:43:14


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
    .0000E+00     7   .0000E+00     8   .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                 PAGE 43
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


```
SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                 PAGE 44
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE 45
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***

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                  PAGE   46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL40         ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
⌧ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
```
 *** AERMET - VERSION  16216 ***
```

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                  PAGE   47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL41         ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                   PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL42       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                   PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL43       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE 50
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL46   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE 53
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 🆕 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

                      PAGE 55
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                      PAGE 56
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

    (472283.7, 3752641.0,   492.6,   492.6,   2.0);   (472482.2, 3752398.0,
     499.3,   499.3,   2.0);
    (472478.0, 3752183.1,   505.1,   505.1,   2.0);   (472148.1, 3752531.5,
     495.2,   502.0,   2.0);
    (472052.1, 3752531.2,   499.4,   512.0,   2.0);   (471975.5, 3752531.2,
     500.5,   514.0,   2.0);
    (471896.1, 3752530.9,   503.4,   513.0,   2.0);   (471840.8, 3752529.9,
     503.4,   513.0,   2.0);
    (471816.6, 3752527.1,   500.6,   513.0,   2.0);   (471736.8, 3752557.9,
     501.5,   501.5,   2.0);
    (471696.6, 3752558.9,   500.0,   500.0,   2.0);   (471627.3, 3752556.2,
     501.9,   512.0,   2.0);
    (471584.6, 3752556.8,   504.5,   507.0,   2.0);   (471560.0, 3752556.2,
     504.6,   507.0,   2.0);
    (471534.3, 3752554.9,   503.2,   509.0,   2.0);   (471514.9, 3752554.9,
     502.2,   519.0,   2.0);
    (471486.8, 3752555.7,   503.1,   503.1,   2.0);   (471465.7, 3752555.4,

```
                                503.1,      503.1,       2.0);
( 471442.2, 3752555.0,     501.3,      505.0,       2.0);          ( 471419.7, 3752552.5,
500.3,      505.0,      2.0);
( 471394.2, 3752552.9,     501.4,      501.4,       2.0);          ( 471363.4, 3752552.5,
503.5,      503.5,      2.0);
( 471332.7, 3752553.3,     505.8,      505.8,       2.0);          ( 471307.6, 3752552.9,
506.9,      506.9,      2.0);
( 471284.0, 3752552.7,     506.2,      506.2,       2.0);          ( 471262.0, 3752552.7,
505.7,      505.7,      2.0);
( 471241.9, 3752552.7,     505.6,      505.6,       2.0);          ( 471223.1, 3752552.9,
505.9,      505.9,      2.0);
( 471205.9, 3752552.9,     506.2,      506.2,       2.0);          ( 471173.2, 3752552.4,
506.5,      506.5,      2.0);
( 471135.7, 3752552.5,     506.1,      506.1,       2.0);          ( 471093.2, 3752551.5,
505.4,      505.4,      2.0);
( 471059.4, 3752551.7,     504.7,      504.7,       2.0);          ( 471020.5, 3752551.2,
503.1,      503.1,      2.0);
( 470981.0, 3752563.6,     502.1,      502.1,       2.0);          ( 470980.4, 3752552.2,
502.5,      502.5,      2.0);
( 470980.1, 3752535.6,     503.0,      503.0,       2.0);          ( 470979.9, 3752517.2,
503.7,      503.7,      2.0);
( 470980.1, 3752499.8,     504.0,      504.0,       2.0);          ( 470980.2, 3752479.8,
504.0,      504.0,      2.0);
( 470980.4, 3752459.4,     504.6,      504.6,       2.0);          ( 470980.2, 3752433.2,
505.4,      505.4,      2.0);
( 470980.1, 3752404.0,     506.0,      506.0,       2.0);          ( 470927.1, 3752402.7,
504.9,      504.9,      2.0);
( 470907.9, 3752402.7,     503.1,      503.1,       2.0);          ( 470887.3, 3752402.7,
500.9,      505.0,      2.0);
( 470869.7, 3752402.0,     500.7,      500.7,       2.0);          ( 470849.6, 3752401.9,
500.3,      500.3,      2.0);
( 470829.4, 3752402.2,     500.0,      500.0,       2.0);          ( 470811.6, 3752402.2,
499.7,      499.7,      2.0);
( 470791.5, 3752402.5,     499.2,      499.2,       2.0);          ( 470773.6, 3752401.9,
498.6,      498.6,      2.0);
( 470749.2, 3752402.2,     497.8,      497.8,       2.0);          ( 470727.7, 3752391.7,
497.8,      497.8,      2.0);
( 470733.0, 3752339.0,     499.9,      499.9,       2.0);          ( 470733.7, 3752320.5,
500.2,      500.2,      2.0);
( 470734.2, 3752291.0,     500.8,      500.8,       2.0);          ( 470733.2, 3752265.8,
500.8,      500.8,      2.0);
( 470732.9, 3752218.8,     501.2,      501.2,       2.0);          ( 470732.5, 3752182.1,
501.8,      501.8,      2.0);
( 470732.4, 3752145.3,     503.0,      503.0,       2.0);          ( 470692.4, 3752144.8,
502.5,      502.5,      2.0);
( 470670.1, 3752144.5,     502.1,      502.1,       2.0);          ( 470651.7, 3752144.3,
502.0,      502.0,      2.0);
( 470633.5, 3752144.1,     501.5,      501.5,       2.0);          ( 470615.5, 3752144.0,
500.9,      500.9,      2.0);
( 470596.0, 3752143.3,     500.2,      500.2,       2.0);          ( 470577.0, 3752143.5,
500.0,      500.0,      2.0);
( 470553.6, 3752143.5,     499.7,      499.7,       2.0);          ( 470528.6, 3752142.6,
498.8,      498.8,      2.0);
( 470508.0, 3752142.8,     497.6,      497.6,       2.0);          ( 470485.6, 3752142.5,
496.3,      496.3,      2.0);
( 470471.6, 3752131.6,     496.1,      496.1,       2.0);          ( 470471.6, 3752109.2,
497.3,      497.3,      2.0);
( 470471.3, 3752085.2,     498.1,      498.1,       2.0);          ( 470471.5, 3752037.7,
499.7,      499.7,      2.0);
( 470471.7, 3752013.0,     500.0,      500.0,       2.0);          ( 470470.9, 3751987.2,
500.1,      500.1,      2.0);
( 470470.9, 3751965.7,     500.1,      500.1,       2.0);          ( 470470.8, 3751944.4,
500.1,      500.1,      2.0);
( 470470.6, 3751924.3,     499.6,      499.6,       2.0);          ( 470470.5, 3751905.9,
499.0,      499.0,      2.0);
( 470470.9, 3751884.1,     499.1,      499.1,       2.0);          ( 470470.6, 3751864.0,
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      498.6,      498.6,      2.0);
   ( 470470.3, 3751844.0,     497.9,      497.9,      2.0);          ( 470470.2, 3751824.5,
      496.6,      496.6,      2.0);
   ( 470470.3, 3751805.8,     495.7,      499.0,      2.0);          ( 470470.3, 3751788.0,
      495.1,      502.0,      2.0);
   ( 470470.3, 3751761.2,     497.6,      497.6,      2.0);          ( 470471.0, 3751741.9,
      499.5,      499.5,      2.0);
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 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                            *** DISCRETE CARTESIAN RECEPTORS ***
                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                      (METERS)


```
   ( 470470.0, 3751722.8,     501.4,      501.4,      2.0);          ( 470470.2, 3751703.4,
      503.3,      503.3,      2.0);
   ( 470470.2, 3751683.8,     504.9,      504.9,      2.0);          ( 470470.3, 3751664.3,
      506.2,      506.2,      2.0);
   ( 470470.3, 3751642.4,     507.6,      507.6,      2.0);          ( 470470.5, 3751621.8,
      508.5,      508.5,      2.0);
   ( 470470.2, 3751599.8,     509.0,      509.0,      2.0);          ( 470470.6, 3751578.8,
      509.1,      509.1,      2.0);
   ( 470469.6, 3751555.9,     507.6,      507.6,      2.0);          ( 470470.0, 3751512.5,
      504.8,      512.0,      2.0);
   ( 470468.6, 3751414.6,     501.8,      513.0,      2.0);          ( 470469.8, 3751385.2,
      507.1,      513.0,      2.0);
   ( 470468.6, 3751358.9,     509.6,      509.6,      2.0);          ( 470462.9, 3751325.6,
      511.9,      511.9,      2.0);
   ( 470462.0, 3751310.6,     512.6,      512.6,      2.0);          ( 470462.6, 3751296.6,
      512.4,      512.4,      2.0);
   ( 470462.6, 3751283.3,     512.0,      512.0,      2.0);          ( 470462.6, 3751269.9,
      511.1,      511.1,      2.0);
   ( 470462.9, 3751254.3,     509.6,      512.0,      2.0);          ( 470462.0, 3751240.7,
      508.9,      508.9,      2.0);
   ( 470463.2, 3751227.6,     509.4,      509.4,      2.0);          ( 470756.4, 3751290.6,
      507.7,      525.0,      2.0);
   ( 470797.7, 3751268.3,     507.7,      525.0,      2.0);          ( 470891.2, 3751226.4,
      512.0,      512.0,      2.0);
   ( 470940.8, 3751191.8,     512.1,      512.1,      2.0);          ( 471000.6, 3750923.6,
      523.8,      523.8,      2.0);
   ( 471029.3, 3750923.6,     523.7,      523.7,      2.0);          ( 471056.3, 3750923.9,
      524.2,      542.0,      2.0);
   ( 471077.9, 3750924.4,     524.8,      543.0,      2.0);          ( 471097.6, 3750924.4,
      525.7,      543.0,      2.0);
   ( 471118.2, 3750925.0,     528.0,      543.0,      2.0);          ( 471139.0, 3750927.4,
      529.8,      543.0,      2.0);
   ( 471160.1, 3750928.8,     530.8,      543.0,      2.0);          ( 471181.1, 3750931.5,
      532.3,      543.0,      2.0);
   ( 471201.7, 3750930.9,     533.3,      543.0,      2.0);          ( 471222.5, 3750931.5,
      533.7,      543.0,      2.0);
   ( 471244.1, 3750931.2,     534.8,      543.0,      2.0);          ( 471264.4, 3750931.7,
      535.7,      538.0,      2.0);
   ( 471284.4, 3750931.7,     536.5,      536.5,      2.0);          ( 471305.8, 3750931.7,
      536.5,      536.5,      2.0);
   ( 471324.7, 3750930.9,     535.8,      535.8,      2.0);          ( 471343.0, 3750930.1,
      534.9,      534.9,      2.0);
   ( 471363.9, 3750929.0,     534.7,      534.7,      2.0);          ( 471382.0, 3750928.8,
      534.8,      534.8,      2.0);
   ( 471400.9, 3750928.2,     535.0,      535.0,      2.0);          ( 471421.1, 3750928.0,
      535.4,      535.4,      2.0);
   ( 471440.6, 3750928.1,     535.6,      535.6,      2.0);          ( 471461.8, 3750927.4,
```

```
                535.7,       535.7,         2.0);
( 471479.8, 3750927.9,      535.9,       535.9,         2.0);        ( 471499.7, 3750927.6,
536.2,       536.2,         2.0);
( 471519.3, 3750928.8,      536.6,       549.0,         2.0);        ( 471537.0, 3750929.6,
538.0,       549.0,         2.0);
( 471556.8, 3750930.9,      539.6,       549.0,         2.0);        ( 471580.7, 3750934.1,
541.7,       549.0,         2.0);
( 471624.0, 3750940.2,      545.0,       549.0,         2.0);        ( 471795.9, 3750950.1,
548.4,       548.4,         2.0);
( 471796.3, 3750967.9,      547.3,       547.3,         2.0);        ( 471796.7, 3750987.2,
545.3,       547.0,         2.0);
( 471797.5, 3751006.8,      542.7,       549.0,         2.0);        ( 471796.7, 3751025.3,
542.0,       547.0,         2.0);
( 471795.9, 3751046.4,      541.1,       541.1,         2.0);        ( 471796.7, 3751073.0,
540.1,       540.1,         2.0);
( 471797.5, 3751143.8,      537.7,       537.7,         2.0);        ( 471833.0, 3751143.8,
537.0,       537.0,         2.0);
( 471867.4, 3751144.0,      534.9,       534.9,         2.0);        ( 471891.0, 3751144.4,
532.9,       532.9,         2.0);
( 471916.6, 3751144.2,      530.9,       530.9,         2.0);        ( 471939.5, 3751144.2,
529.4,       529.4,         2.0);
( 471963.1, 3751144.4,      525.8,       535.0,         2.0);        ( 471984.2, 3751144.0,
524.4,       533.0,         2.0);
( 471999.0, 3751163.4,      525.3,       536.0,         2.0);        ( 472000.2, 3751199.1,
530.8,       530.8,         2.0);
( 471999.8, 3751230.6,      532.9,       532.9,         2.0);        ( 472000.4, 3751251.5,
534.3,       534.3,         2.0);
( 472000.2, 3751281.1,      536.2,       536.2,         2.0);        ( 472002.0, 3751347.9,
537.0,       537.0,         2.0);
( 472036.9, 3751348.5,      536.6,       536.6,         2.0);        ( 472063.1, 3751349.3,
536.5,       536.5,         2.0);
( 472084.6, 3751348.3,      535.8,       535.8,         2.0);        ( 472104.9, 3751348.7,
534.6,       534.6,         2.0);
( 472127.3, 3751348.5,      533.0,       533.0,         2.0);        ( 472150.8, 3751349.7,
531.4,       531.4,         2.0);
( 472171.5, 3751349.5,      530.3,       530.3,         2.0);        ( 472194.1, 3751349.1,
528.2,       531.0,         2.0);
( 472222.6, 3751348.7,      525.4,       536.0,         2.0);        ( 472247.8, 3751349.5,
523.2,       536.0,         2.0);
( 472269.7, 3751349.1,      520.9,       536.0,         2.0);        ( 472290.4, 3751350.3,
520.7,       535.0,         2.0);
( 472313.6, 3751350.5,      520.9,       532.0,         2.0);        ( 472333.8, 3751351.3,
520.6,       532.0,         2.0);
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                            *** DISCRETE CARTESIAN RECEPTORS ***
                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)


```
( 472354.8, 3751351.3,      518.5,       532.0,         2.0);        ( 472377.7, 3751351.1,
516.0,       532.0,         2.0);
( 472401.7, 3751351.1,      513.6,       533.0,         2.0);        ( 472425.5, 3751351.8,
511.8,       532.0,         2.0);
( 472445.7, 3751350.7,      511.1,       532.0,         2.0);        ( 472463.2, 3751350.9,
509.4,       532.0,         2.0);
( 472484.1, 3751350.9,      507.3,       532.0,         2.0);        ( 472503.9, 3751351.3,
506.3,       532.0,         2.0);
( 472523.8, 3751351.3,      506.2,       531.0,         2.0);        ( 472543.3, 3751351.3,
506.4,       506.4,         2.0);
( 472563.2, 3751352.2,      506.1,       506.1,         2.0);        ( 472582.6, 3751352.0,
```

```
           505.8,       505.8,        2.0);
  ( 472601.3, 3751352.0,      505.3,       505.3,        2.0);            ( 472606.8, 3751367.3,
  504.3,       504.3,        2.0);
  ( 472607.6, 3751396.4,      504.2,       504.2,        2.0);            ( 472608.5, 3751432.1,
  505.0,       505.0,        2.0);
  ( 472608.9, 3751462.6,      504.4,       504.4,        2.0);            ( 472609.5, 3751497.1,
  505.0,       505.0,        2.0);
  ( 472610.7, 3751553.8,      505.4,       505.4,        2.0);            ( 472666.0, 3751554.0,
  501.3,       501.3,        2.0);
  ( 472690.4, 3751553.6,      499.8,       499.8,        2.0);            ( 472713.5, 3751554.3,
  499.2,       499.2,        2.0);
  ( 472734.6, 3751554.0,      497.9,       497.9,        2.0);            ( 472759.5, 3751554.0,
  496.2,       496.2,        2.0);
  ( 472781.8, 3751554.5,      494.9,       499.0,        2.0);            ( 472849.8, 3751556.1,
  495.4,       495.4,        2.0);
  ( 472871.8, 3751556.1,      494.9,       494.9,        2.0);            ( 472895.2, 3751555.6,
  494.2,       494.2,        2.0);
  ( 472922.6, 3751555.9,      493.8,       493.8,        2.0);            ( 473092.4, 3751802.3,
  486.1,       486.1,        2.0);
  ( 473204.8, 3751856.8,      481.6,       481.6,        2.0);            ( 472991.2, 3752083.3,
  484.1,       484.1,        2.0);
  ( 473295.1, 3752052.5,      478.7,       478.7,        2.0);            ( 473356.8, 3752050.3,
  476.8,       476.8,        2.0);
  ( 473495.1, 3751996.6,      476.0,       476.0,        2.0);            ( 473486.5, 3751917.7,
  475.8,       475.8,        2.0);
  ( 473392.6, 3752058.2,      475.9,       475.9,        2.0);            ( 473464.3, 3752082.6,
  475.2,       475.2,        2.0);
  ( 473550.3, 3752087.6,      473.0,       473.0,        2.0);            ( 473584.7, 3752089.8,
  473.0,       473.0,        2.0);
  ( 472765.6, 3752474.1,      477.2,       495.0,        2.0);            ( 470432.2, 3750483.9,
  532.6,       532.6,        2.0);
  ( 469244.1, 3754182.8,      471.3,       485.0,        2.0);            ( 469596.8, 3750785.6,
  493.4,       493.4,        2.0);
  ( 470466.5, 3750530.3,      535.0,       535.0,        2.0);            ( 469319.3, 3749244.5,
  500.0,       500.0,        2.0);
  ( 469229.6, 3749502.2,      503.4,       503.4,        2.0);            ( 468465.4, 3749582.3,
  490.5,       490.5,        2.0);
  ( 471438.4, 3750129.8,      539.2,       539.2,        2.0);            ( 471657.5, 3749918.8,
  535.4,       535.4,        2.0);
  ( 471732.9, 3749916.5,      534.7,       534.7,        2.0);            ( 471710.3, 3750132.8,
  537.0,       537.0,        2.0);
  ( 471273.9, 3750119.8,      540.5,       540.5,
  2.0);
```

▋▋ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                   *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1

```
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54,   3.09,   5.14,   8.23, 10.80,

                PAGE 60
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:   3171   Upper air station no.:   3190
                Name: UNKNOWN   Name:
                UNKNOWN
                Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS
 WD   HT   REF TA   HT
 -
 - - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15   2.40   1.00   2.93
 55. 10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15   2.40   1.00   3.05
 55. 10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15   2.40   1.00   2.45
 74. 10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15   2.40   1.00   2.52
 77. 10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15   2.40   1.00   2.30
 80. 10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15   2.40   1.00   1.93
 79. 10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15   2.40   1.00   1.96
 77. 10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15   2.40   0.53   1.89
 77. 10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15   2.40   0.31   2.10
 81. 10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005   129. 293.   -11.8 0.15   2.40   0.24   1.99
 101. 10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005   369. 611.   -35.6 0.15   2.40   0.21   3.68
```

```
78.   10.1  298.8    2.0
12 01 01   1 12  184.7 0.337  1.516  0.005  668.  473.    -18.4 0.15  2.40  0.20  2.89
68.   10.1  300.4    2.0
12 01 01   1 13  183.9 0.310  1.809  0.005 1139.  414.    -14.2 0.15  2.40  0.20  2.57
64.   10.1  302.5    2.0
12 01 01   1 14  156.6 0.374  1.852  0.005 1434.  549.    -29.5 0.15  2.40  0.22  3.37
63.   10.1  303.1    2.0
12 01 01   1 15  104.3 0.382  1.658  0.005 1546.  567.    -47.2 0.15  2.40  0.25  3.59
62.   10.1  302.5    2.0
12 01 01   1 16   31.8 0.374  1.123  0.005 1573.  550.   -145.8 0.15  2.40  0.34  3.76
69.   10.1  300.9    2.0
12 01 01   1 17  -23.3 0.276 -9.000 -9.000 -999.  354.     84.0 0.15  2.40  0.62  3.03
59.   10.1  297.5    2.0
12 01 01   1 18  -21.5 0.229 -9.000 -9.000 -999.  264.     57.8 0.15  2.40  1.00  2.54
54.   10.1  295.4    2.0
12 01 01   1 19  -19.3 0.204 -9.000 -9.000 -999.  221.     45.6 0.15  2.40  1.00  2.27
79.   10.1  292.0    2.0
12 01 01   1 20  -20.7 0.218 -9.000 -9.000 -999.  244.     52.2 0.15  2.40  1.00  2.42
79.   10.1  292.5    2.0
12 01 01   1 21  -19.7 0.206 -9.000 -9.000 -999.  225.     46.9 0.15  2.40  1.00  2.30
95.   10.1  290.9    2.0
12 01 01   1 22  -17.6 0.190 -9.000 -9.000 -999.  199.     39.8 0.15  2.40  1.00  2.13
78.   10.1  290.4    2.0
12 01 01   1 23  -20.3 0.211 -9.000 -9.000 -999.  233.     49.0 0.15  2.40  1.00  2.35
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4 0.183 -9.000 -9.000 -999.  189.     37.0 0.15  2.40  1.00  2.06
75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


 F indicates top of profile (=1) or below (=0)
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                             *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_10   IN
                         MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
      (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
       472283.74 3752640.98   0.39223 (13100924)   472482.23
       3752398.04   0.49550m (13112124)
       472477.97 3752183.12   0.61202 (13121924)   472148.10
       3752531.53   0.63980 (13100924)

472052.12	3752531.22	0.74507	(13100924)	471975.52
3752531.22		0.78117	(13100924)	
471896.06	3752530.90	0.81103	(13100924)	471840.76
3752529.94		0.81658	(13100924)	
471816.60	3752527.08	0.81187	(13100924)	471736.82
3752557.91		0.77035	(13100924)	
471696.59	3752558.87	0.76793	(13100924)	471627.29
3752556.22		0.78386	(13100924)	
471584.60	3752556.76	0.78126	(13100924)	471560.01
3752556.22		0.77424	(16010624)	
471534.35	3752554.87	0.78614	(16010624)	471514.89
3752554.87		0.78671	(16010624)	
471486.79	3752555.68	0.79398	(16010624)	471465.72
3752555.41		0.79713	(16010624)	
471442.21	3752554.98	0.78982	(16010624)	471419.71
3752552.46		0.79463	(16010624)	
471394.22	3752552.91	0.79981	(16010624)	471363.44
3752552.46		0.81554	(16010624)	
471332.68	3752553.31	0.82297	(16010624)	471307.62
3752552.94		0.82783	(16010624)	
471284.05	3752552.70	0.82437	(16010624)	471261.98
3752552.70		0.82016	(16010624)	
471241.90	3752552.70	0.81749	(16010624)	471223.15
3752552.86		0.81617	(16010624)	
471205.90	3752552.86	0.81589	(16010624)	471173.21
3752552.37		0.81907	(16010624)	
471135.70	3752552.53	0.82403	(16010624)	471093.22
3752551.54		0.83507	(16010624)	
471059.37	3752551.70	0.84270	(16010624)	471020.54
3752551.20		0.83802	(16010624)	
470981.05	3752563.65	0.72462	(16010524)	470980.39
3752552.20		0.77963	(16010524)	
470980.06	3752535.61	0.87116	(16010524)	470979.89
3752517.19		0.98599	(16010524)	
470980.06	3752499.76	1.11275	(14121224)	470980.22
3752479.85		1.20493	(14121224)	
470980.39	3752459.44	1.26384	(14121224)	470980.22
3752433.22		1.30675	(14121224)	
470980.06	3752404.02	1.39482	(12121324)	470927.12
3752402.69		0.89677	(14121224)	
470907.87	3752402.69	0.81017	(14121224)	470887.30
3752402.69		0.73565	(14121224)	
470869.71	3752402.03	0.68880	(14121224)	470849.63
3752401.86		0.64082	(14121224)	
470829.39	3752402.19	0.59779	(14121224)	470811.63
3752402.19		0.56425	(14121224)	
470791.55	3752402.53	0.52997	(14121224)	470773.63
3752401.86		0.50280	(14121224)	
470749.24	3752402.19	0.46944	(14121224)	470727.72
3752391.74		0.44781	(14121224)	
470733.04	3752338.97	0.47290	(14121224)	470733.70
3752320.55		0.47904	(14121224)	
470734.20	3752291.01	0.48814	(14121224)	470733.20
3752265.78		0.49552	(15112724)	
470732.87	3752218.81	0.51868	(15112724)	470732.54
3752182.14		0.53460	(15112724)	
470732.37	3752145.29	0.55087	(15112724)	470692.38
3752144.80		0.49909	(15112724)	
470670.14	3752144.46	0.47417	(15112724)	470651.72
3752144.30		0.45523	(15112724)	
470633.46	3752144.13	0.43777	(15112724)	470615.54
3752143.97		0.42181	(15112724)	
470595.95	3752143.30	0.40572	(15112724)	470577.03
3752143.47		0.39097	(15112724)	
470553.63	3752143.47	0.37406	(15112724)	470528.57
3752142.64		0.35760	(15112724)	

```
       470507.99    3752142.80         0.34474  (15112724)              470485.59
       3752142.47        0.33177  (15112724)
       470471.60    3752131.63         0.32723  (15112724)              470471.60
       3752109.21        0.33372  (15112724)
       470471.32    3752085.22         0.34035  (15112724)              470471.46
       3752037.68        0.35323  (15112724)
       470471.74    3752013.00         0.35960  (15112724)              470470.89
       3751987.18        0.36512  (15112724)
       470470.89    3751965.74         0.36972  (15112724)              470470.75
       3751944.44        0.37376  (15112724)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                    VOL3   , VOL4   , VOL5   ,
                 VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                 VOL11   , VOL12   , VOL13   ,
                 VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                 VOL19   , VOL20   , VOL21   ,
                 VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                 VOL27   , VOL28   , . . .   ,

                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_10   IN
                         MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
       (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
       470470.61   3751924.27   0.37711 (15112724)   470470.47
       3751905.93   0.37970 (15112724)
       470470.89   3751884.06   0.38262 (15112724)   470470.61
       3751864.03   0.38422 (15112724)
       470470.33   3751844.00   0.38512 (15112724)   470470.19
       3751824.53   0.38534 (15112724)
       470470.33   3751805.77   0.38516 (15112724)   470470.33
       3751788.00   0.38438 (15112724)
       470470.33   3751761.19   0.38296 (15112724)   470471.03
       3751741.87   0.38150 (15112724)
       470470.05   3751722.82   0.37806 (15112724)   470470.19
       3751703.36   0.37453 (15112724)
       470470.19   3751683.75   0.37267 (14121624)   470470.33
       3751664.28   0.37105 (14121624)
       470470.33   3751642.41   0.36835 (14121624)   470470.47
       3751621.82   0.36523 (14121624)
       470470.19   3751599.81   0.36411 (16122924)   470470.61
       3751578.79   0.36899c (14123024)
       470469.62   3751555.94   0.37270c (14123024)   470470.05
       3751512.49   0.37926c (14123024)
       470468.64   3751414.59   0.38016c (14123024)   470469.76
       3751385.25   0.37954c (14123024)
       470468.65   3751358.95   0.37562c (14123024)   470462.93
       3751325.56   0.36638c (14123024)
       470461.98   3751310.62   0.36316c (14123024)   470462.61
       3751296.63   0.36106c (14123024)
       470462.61   3751283.28   0.35942 (13012524)   470462.61
       3751269.92   0.35963 (13012524)
```

```
470462.93    3751254.35        0.35966  (13012524)            470461.98
3751240.67        0.35916  (13012524)
470463.25    3751227.64        0.35948  (13012524)            470756.39
3751290.59        0.69264  (12121324)
470797.72    3751268.33        0.73687  (12121324)            470891.19
3751226.38        0.81482  (12121324)
470940.78    3751191.82        0.79797  (12121324)            471000.61
3750923.63        0.50593  (12121324)
471029.26    3750923.63        0.51102  (12121324)            471056.29
3750923.90        0.51400  (12121324)
471077.91    3750924.44        0.51362  (12121324)            471097.64
3750924.44        0.51058  (12121324)
471118.18    3750924.98        0.50709m (14123124)            471138.99
3750927.42        0.50967m (14123124)
471160.07    3750928.77        0.50981m (14123124)            471181.15
3750931.47        0.50878m (14123124)
471201.69    3750930.93        0.50422m (14123124)            471222.50
3750931.47        0.50085m (14123124)
471244.13    3750931.20        0.49474m (14123124)            471264.40
3750931.74        0.48981m (14123124)
471284.40    3750931.74        0.48483m (14123124)            471305.75
3750931.74        0.48100m (14123124)
471324.67    3750930.93        0.47790m (14123124)            471343.05
3750930.12        0.47404m (14123124)
471363.86    3750929.04        0.46656m (14123124)            471381.96
3750928.77        0.45787m (14123124)
471400.88    3750928.23        0.44504m (14123124)            471421.15
3750927.96        0.42696m (14123124)
471440.59    3750928.11        0.42481  (15122824)            471461.83
3750927.45        0.42956  (15122824)
471479.76    3750927.95        0.43412  (15122824)            471499.68
3750927.62        0.43787  (15122824)
471519.26    3750928.78        0.44267  (15122824)            471537.02
3750929.61        0.44639  (15122824)
471556.77    3750930.94        0.44928  (15122824)            471580.68
3750934.09        0.45330  (15122824)
471624.00    3750940.23        0.45244  (15122824)            471795.90
3750950.11        0.38971  (15122824)
471796.29    3750967.88        0.40381  (15122824)            471796.69
3750987.22        0.42114  (15122824)
471797.47    3751006.75        0.44037  (15122824)            471796.69
3751025.30        0.45838  (15122824)
471795.90    3751046.40        0.47945  (15122824)            471796.69
3751072.96        0.50593  (15122824)
471797.47    3751143.85        0.58502  (15122824)            471833.01
3751143.85        0.54539  (15122824)
471867.38    3751144.05        0.51151  (15122824)            471891.02
3751144.44        0.49291  (15122824)
471916.60    3751144.24        0.47329  (15122824)            471939.45
3751144.24        0.45496  (15122824)
471963.08    3751144.44        0.44053  (15122824)            471984.17
3751144.05        0.42475  (15122824)
```

▦▦ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                      *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                      SOURCE GROUP: ALL   ***
                        INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,

```
             VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
             VOL19       , VOL20       , VOL21       ,
             VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
             VOL27       , VOL28       ,  . . .      ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF PM_10    IN
                              MICROGRAMS/M**3                              **


     X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD
        (M)        CONC    (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
      471999.02   3751163.38       0.42316  (15122824)           472000.19
      3751199.12       0.43476  (15122824)
      471999.80   3751230.56       0.45010  (15122824)           472000.38
      3751251.46       0.45964  (15122824)
      472000.19   3751281.15       0.48038  (13112024)           472001.95
      3751347.94       0.54837  (13112024)
      472036.90   3751348.52       0.51373  (13112024)           472063.07
      3751349.31       0.49101  (13112024)
      472084.56   3751348.33       0.47389  (13112024)           472104.87
      3751348.72       0.46119  (13112024)
      472127.33   3751348.52       0.44826  (13112024)           472150.76
      3751349.70       0.43699  (13112024)
      472171.47   3751349.50       0.42645  (13112024)           472194.12
      3751349.11       0.41728  (13112024)
      472222.63   3751348.72       0.40723  (13112024)           472247.83
      3751349.50       0.39986  (13112024)
      472269.70   3751349.11       0.39430  (13112024)           472290.40
      3751350.28       0.38745  (13112024)
      472313.64   3751350.48       0.37928  (13112024)           472333.76
      3751351.26       0.37382  (13112024)
      472354.85   3751351.26       0.37092  (13112024)           472377.70
      3751351.06       0.36881  (13112024)
      472401.72   3751351.06       0.36672  (13112024)           472425.55
      3751351.84       0.36167  (13112024)
      472445.67   3751350.67       0.35634  (13112024)           472463.24
      3751350.87       0.35258  (13112024)
      472484.14   3751350.87       0.34782  (13112024)           472503.87
      3751351.26       0.34317  (13112024)
      472523.79   3751351.26       0.33796  (13112024)           472543.32
      3751351.26       0.33266  (13112024)
      472563.24   3751352.24       0.32770  (13112024)           472582.57
      3751352.04       0.32228  (13112024)
      472601.32   3751352.04       0.31714  (13112024)           472606.79
      3751367.27       0.32272  (13112024)
      472607.57   3751396.37       0.33666  (13112024)           472608.55
      3751432.11       0.35566  (13112024)
      472608.94   3751462.58       0.37473  (13112024)           472609.52
      3751497.15       0.40000  (13112024)
      472610.70   3751553.78       0.45584  (13112024)           472665.97
      3751553.98       0.43679  (13112024)
      472690.38   3751553.59       0.42899  (13112024)           472713.50
      3751554.27       0.42347  (13112024)
      472734.64   3751554.04       0.41802  (13112024)           472759.46
      3751554.04       0.41228  (13112024)
      472781.75   3751554.50       0.40764  (13112024)           472849.76
      3751556.11       0.39038  (13112024)
      472871.82   3751556.11       0.38225  (13112024)           472895.25
      3751555.65       0.37227  (13112024)
      472922.60   3751555.88       0.36104  (13112024)           473092.41
      3751802.31       0.69580  (12042324)
      473204.80   3751856.81       0.55740  (13111924)           472991.21
      3752083.31       0.62499m (13112124)
```

```
        473295.12    3752052.49         0.39688m (13112124)                    473356.76
        3752050.34         0.34464  (15042424)
        473495.10    3751996.58         0.31045  (15042424)                    473486.50
        3751917.74         0.32570  (12050124)
        473392.60    3752058.22         0.32434  (15042424)                    473464.28
        3752082.59         0.29632  (13020524)
        473550.29    3752087.61         0.27588  (13020524)                    473584.69
        3752089.76         0.26894  (13020524)
        472765.59    3752474.09         0.35651m (13112124)                    470432.16
        3750483.93         0.28866  (12121324)
        469244.06    3754182.82         0.06594  (16091624)                    469596.75
        3750785.65         0.23783  (13012524)
        470466.55    3750530.27         0.30047  (12121324)                    469319.29
        3749244.53         0.10659  (12010224)
        469229.64    3749502.19         0.10472  (13012524)                    468465.38
        3749582.33         0.14452  (13012524)
        471438.37    3750129.76         0.14484  (16011524)                    471657.54
        3749918.78         0.13370  (15122824)
        471732.91    3749916.52         0.13355  (15122824)                    471710.30
        3750132.80         0.15737  (15122824)
        471273.89    3750119.77         0.13470
        (12012424)
```

🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                                             *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                              ** CONC OF PM_10   IN
                              MICROGRAMS/M**3   **

                                          DATE
                                                                          NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - -

ALL   HIGH 1ST HIGH VALUE IS   1.39482 ON 12121324: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:43:14

                    PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)

```
A Total of          1638 Informational Message(s)

A Total of         43848 Hours Were Processed

A Total of          1039 Calm Hours Identified

A Total of           599 Missing Hours Identified (  1.37 Percent)


     ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


     ********   WARNING MESSAGES   ********
ME W186      915        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187      915        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

     ************************************
     *** AERMOD Finishes Successfully ***
     ************************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM25\14064 Cons
PM25.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM25.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

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          LOCATION VOL29          VOLUME      471577.888  3751616.698      529.000
          LOCATION VOL30          VOLUME      471724.580  3751620.663      533.750
          LOCATION VOL31          VOLUME      471941.049  3751865.677      534.600
          LOCATION VOL32          VOLUME      471795.151  3751684.890      537.260
          LOCATION VOL33          VOLUME      471577.888  3751434.325      531.060
          LOCATION VOL34          VOLUME      471389.965  3751431.946      537.260
          LOCATION VOL35          VOLUME      471202.041  3751467.628      526.830
          LOCATION VOL36          VOLUME      471065.657  3751504.895      521.960
          LOCATION VOL37          VOLUME      471656.388  3751514.411      529.480
          LOCATION VOL38          VOLUME      471522.384  3751324.108      529.000
          LOCATION VOL39          VOLUME      471332.874  3751322.522      529.530
          LOCATION VOL40          VOLUME      471282.920  3751321.729      528.170
          LOCATION VOL41          VOLUME      471233.758  3751388.335      528.470
          LOCATION VOL42          VOLUME      472135.642  3751845.064      525.790
          LOCATION VOL43          VOLUME      472323.361  3751843.460      510.520
          LOCATION VOL44          VOLUME      472512.544  3751852.284      501.450
          LOCATION VOL45          VOLUME      472698.022  3751875.469      491.390
          LOCATION VOL46          VOLUME      472880.772  3751928.657      487.900
          LOCATION VOL47          VOLUME      472608.011  3752044.580      498.520
          LOCATION VOL48          VOLUME      471084.506  3752407.221      506.810
          LOCATION PAREA1         AREAPOLY    470984.533  3751406.024      515.330
** Source Parameters **
          SRCPARAM VOL1           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL2           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL3           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL4           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL5           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL6           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL7           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL8           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL9           0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL10          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL11          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL12          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL13          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL14          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL15          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL16          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL17          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL18          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL19          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL20          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL21          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL22          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL23          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL24          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL25          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL26          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL27          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL28          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL29          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL30          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL31          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL32          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL33          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL34          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL35          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL36          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL37          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL38          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL39          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL40          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL41          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL42          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL43          0.0042097729      5.000      43.702     1.400
          SRCPARAM VOL44          0.0042097729      5.000      43.702     1.400
```

```
    SRCPARAM VOL45            0.0042097729       5.000       43.702       1.400
    SRCPARAM VOL46            0.0042097729       5.000       43.702       1.400
    SRCPARAM VOL47            0.0042097729       5.000       43.702       1.400
    SRCPARAM VOL48            0.0042097729       5.000       43.702       1.400
    SRCPARAM PAREA1           1.8916E-07         0.000          33        1.000
    AREAVERT PAREA1           470984.533 3751406.024 470977.851 3751426.069
    AREAVERT PAREA1           470961.147 3751427.739 470880.967 3751684.984
    AREAVERT PAREA1           470872.615 3751733.426 470869.274 3751801.913
    AREAVERT PAREA1           470885.978 3751888.775 470912.705 3751970.626
    AREAVERT PAREA1           470962.818 3752102.589 470972.840 3752174.417
    AREAVERT PAREA1           470974.511 3752314.732 470999.567 3752316.403
    AREAVERT PAREA1           471001.237 3752498.478 471078.077 3752500.149
    AREAVERT PAREA1           471078.077 3752465.070 471701.143 3752466.740
    AREAVERT PAREA1           471702.814 3752436.673 472100.373 3752443.354
    AREAVERT PAREA1           472095.362 3751942.229 472521.319 3751948.910
    AREAVERT PAREA1           472517.978 3752139.338 472700.054 3752139.338
    AREAVERT PAREA1           472705.065 3751973.967 472935.583 3752014.057
    AREAVERT PAREA1           472963.980 3751842.003 472753.507 3751786.880
    AREAVERT PAREA1           472599.829 3751766.834 472369.311 3751755.142
    AREAVERT PAREA1           472160.508 3751753.471 472005.159 3751771.846
    AREAVERT PAREA1           471585.884 3751228.959 471189.995 3751228.959
    AREAVERT PAREA1           471083.088 3751419.387
    URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL1             HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL2             HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3             HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL3             HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3             HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Sunday:
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM25.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
```

```
     RECTABLE ALLAVE 1ST
     RECTABLE 24 1ST
** Auto-Generated Plotfiles
     PLOTFILE 24 ALL 1ST "14064 CONS PM25.AD\24H1GALL.PLT" 31
     SUMMFILE "14064 Cons PM25.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of           0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***


     ********   WARNING MESSAGES   ********
 ME W186     915       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     915       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

& *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

```
                    PAGE   1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                    ***     MODEL SETUP OPTIONS SUMMARY      ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   49 Source(s),
       for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:     49 Source(s);       1 Source Group(s); and     233 Receptor(s)
```

```
               with:       0 POINT(s), including
                           0 POINTCAP(s) and       0 POINTHOR(s)
                  and:      48 VOLUME source(s)
                  and:       1 AREA type source(s)
                  and:       0 LINE source(s)
                  and:       0 RLINE/RLINEXT source(s)
                  and:       0 OPENPIT source(s)
                  and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                  and:       0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                 Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =      0.0
                 Emission Units = GRAMS/SEC                               ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14064 Cons
 PM25.err
 **File for Summary of Results:   14064 Cons
 PM25.sum
 ▟▟ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        09:49:03

                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                              *** VOLUME SOURCE DATA ***


            NUMBER EMISSION RATE                  BASE    RELEASE   INIT.    INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)    X         Y      ELEV.   HEIGHT    SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)          BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -


 VOL1           0   0.42098E-02  471175.5 3752366.4   510.2     5.00     43.70      1.40
 YES    HRDOW
 VOL2           0   0.42098E-02  471362.2 3752367.6   512.4     5.00     43.70      1.40
```

```
YES     HRDOW
VOL3               0    0.42098E-02   471550.1 3752368.4   518.9    5.00    43.70    1.40
YES     HRDOW
VOL4               0    0.42098E-02   471609.6 3752371.6   516.0    5.00    43.70    1.40
YES     HRDOW
VOL5               0    0.42098E-02   471796.7 3752342.2   515.1    5.00    43.70    1.40
YES     HRDOW
VOL6               0    0.42098E-02   471984.7 3752344.6   513.6    5.00    43.70    1.40
YES     HRDOW
VOL7               0    0.42098E-02   472003.7 3752347.0   512.1    5.00    43.70    1.40
YES     HRDOW
VOL8               0    0.42098E-02   472002.9 3752159.1   521.6    5.00    43.70    1.40
YES     HRDOW
VOL9               0    0.42098E-02   471814.2 3752156.7   520.7    5.00    43.70    1.40
YES     HRDOW
VOL10              0    0.42098E-02   471628.6 3752181.3   526.8    5.00    43.70    1.40
YES     HRDOW
VOL11              0    0.42098E-02   471440.7 3752181.3   527.4    5.00    43.70    1.40
YES     HRDOW
VOL12              0    0.42098E-02   471253.6 3752180.5   518.9    5.00    43.70    1.40
YES     HRDOW
VOL13              0    0.42098E-02   471092.6 3752217.7   509.6    5.00    43.70    1.40
YES     HRDOW
VOL14              0    0.42098E-02   471074.4 3752029.0   516.1    5.00    43.70    1.40
YES     HRDOW
VOL15              0    0.42098E-02   471263.9 3751992.5   521.1    5.00    43.70    1.40
YES     HRDOW
VOL16              0    0.42098E-02   471452.6 3751994.1   530.0    5.00    43.70    1.40
YES     HRDOW
VOL17              0    0.42098E-02   471640.5 3751992.5   534.9    5.00    43.70    1.40
YES     HRDOW
VOL18              0    0.42098E-02   471827.7 3751968.0   533.0    5.00    43.70    1.40
YES     HRDOW
VOL19              0    0.42098E-02   472002.9 3751970.3   527.9    5.00    43.70    1.40
YES     HRDOW
VOL20              0    0.42098E-02   471845.1 3751780.0   538.8    5.00    43.70    1.40
YES     HRDOW
VOL21              0    0.42098E-02   471657.2 3751803.8   536.0    5.00    43.70    1.40
YES     HRDOW
VOL22              0    0.42098E-02   471468.5 3751806.2   528.3    5.00    43.70    1.40
YES     HRDOW
VOL23              0    0.42098E-02   471280.5 3751807.0   525.0    5.00    43.70    1.40
YES     HRDOW
VOL24              0    0.42098E-02   471093.4 3751841.9   515.6    5.00    43.70    1.40
YES     HRDOW
VOL25              0    0.42098E-02   470978.4 3751841.9   518.1    5.00    43.70    1.40
YES     HRDOW
VOL26              0    0.42098E-02   471014.1 3751654.8   520.4    5.00    43.70    1.40
YES     HRDOW
VOL27              0    0.42098E-02   471201.2 3751654.8   525.1    5.00    43.70    1.40
YES     HRDOW
VOL28              0    0.42098E-02   471389.2 3751619.1   534.9    5.00    43.70    1.40
YES     HRDOW
VOL29              0    0.42098E-02   471577.9 3751616.7   529.0    5.00    43.70    1.40
YES     HRDOW
VOL30              0    0.42098E-02   471724.6 3751620.7   533.8    5.00    43.70    1.40
YES     HRDOW
VOL31              0    0.42098E-02   471941.0 3751865.7   534.6    5.00    43.70    1.40
YES     HRDOW
VOL32              0    0.42098E-02   471795.2 3751684.9   537.3    5.00    43.70    1.40
YES     HRDOW
VOL33              0    0.42098E-02   471577.9 3751434.3   531.1    5.00    43.70    1.40
YES     HRDOW
VOL34              0    0.42098E-02   471390.0 3751431.9   537.3    5.00    43.70    1.40
YES     HRDOW
VOL35              0    0.42098E-02   471202.0 3751467.6   526.8    5.00    43.70    1.40
```

```
 YES   HRDOW
VOL36             0   0.42098E-02  471065.7 3751504.9   522.0    5.00    43.70    1.40
 YES   HRDOW
VOL37             0   0.42098E-02  471656.4 3751514.4   529.5    5.00    43.70    1.40
 YES   HRDOW
VOL38             0   0.42098E-02  471522.4 3751324.1   529.0    5.00    43.70    1.40
 YES   HRDOW
VOL39             0   0.42098E-02  471332.9 3751322.5   529.5    5.00    43.70    1.40
 YES   HRDOW
VOL40             0   0.42098E-02  471282.9 3751321.7   528.2    5.00    43.70    1.40
 YES   HRDOW
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                    PAGE   3
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

```
             NUMBER EMISSION RATE                 BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)    X       Y      ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)         BY
```
- -
- - - - - - - - - - - - -

```
VOL41             0   0.42098E-02  471233.8 3751388.3   528.5    5.00    43.70    1.40
 YES   HRDOW
VOL42             0   0.42098E-02  472135.6 3751845.1   525.8    5.00    43.70    1.40
 YES   HRDOW
VOL43             0   0.42098E-02  472323.4 3751843.5   510.5    5.00    43.70    1.40
 YES   HRDOW
VOL44             0   0.42098E-02  472512.5 3751852.3   501.4    5.00    43.70    1.40
 YES   HRDOW
VOL45             0   0.42098E-02  472698.0 3751875.5   491.4    5.00    43.70    1.40
 YES   HRDOW
VOL46             0   0.42098E-02  472880.8 3751928.7   487.9    5.00    43.70    1.40
 YES   HRDOW
VOL47             0   0.42098E-02  472608.0 3752044.6   498.5    5.00    43.70    1.40
 YES   HRDOW
VOL48             0   0.42098E-02  471084.5 3752407.2   506.8    5.00    43.70    1.40
 YES   HRDOW
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** AREAPOLY SOURCE DATA ***

```
             NUMBER EMISSION RATE    LOCATION OF AREA  BASE     RELEASE   NUMBER      INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC     X       Y      ELEV.    HEIGHT   OF VERTS.     SZ
  SOURCE  SCALAR VARY
    ID      CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
     (METERS)         BY
```
- -
- - - - - - - - - - - - -

```
 PAREA1              0   0.18916E-06   470984.5 3751406.0   515.3     0.00        33            1.00
 YES    HRDOW
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
   VOL7   , VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
             VOL39   , VOL40   ,

             VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
             VOL47   , VOL48   ,

             PAREA1   ,

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
              VOL6   , VOL7   ,
 VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,

```
          VOL39        , VOL40        ,

          VOL41        , VOL42       , VOL43        , VOL44        , VOL45        , VOL46        ,
          VOL47        , VOL48       ,

          PAREA1       ,
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         09:49:03


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL2          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL3          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL4          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
   - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🞂🞂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL5   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🞂🞂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
   .0000E+00   23  .0000E+00   24  .0000E+00
▆▆ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        09:49:03

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL8          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
▆▆ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        09:49:03

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL9          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                 ***          09:49:03


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL10        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                 ***          09:49:03


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
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      .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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                     PAGE  18
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL12        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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                     PAGE  19
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL13        ; SOURCE TYPE = VOLUME    :
```

```
HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                  PAGE 20
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
```
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                     DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                     DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
            .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

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 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -

```
                                           DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

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Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8   .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16   .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24   .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8   .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16   .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24   .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8   .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16   .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24   .0000E+00
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Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8   .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16   .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24   .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8   .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16   .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24   .0000E+00

```
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
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■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

�🔅 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL28   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔅 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL29   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

- -
- - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


SOURCE ID = VOL31        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 *** AERMET - VERSION  16216 ***
 ***                                                               ***        09:49:03


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▟▛ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▟▛ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL34   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
       .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       09:49:03


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       09:49:03


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = VOL37   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
🏳🏳 *** AERMOD - VERSION 22112   ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***          09:49:03

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
🏳🏳 *** AERMOD - VERSION 22112   ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/26/23
 *** AERMET - VERSION  16216 ***
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                     PAGE   46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL40         ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 *** AERMET - VERSION  16216 ***
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                     PAGE   47
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL41         ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 48
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 49
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL45   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▊▊ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = VOL46   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▊▊ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL47        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:49:03

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                     (METERS)

    (472283.7, 3752641.0,   492.6,   492.6,   2.0);   (472482.2, 3752398.0,
     499.3,   499.3,   2.0);
    (472478.0, 3752183.1,   505.1,   505.1,   2.0);   (472148.1, 3752531.5,
     495.2,   502.0,   2.0);
    (472052.1, 3752531.2,   499.4,   512.0,   2.0);   (471975.5, 3752531.2,
     500.5,   514.0,   2.0);
    (471896.1, 3752530.9,   503.4,   513.0,   2.0);   (471840.8, 3752529.9,
     503.4,   513.0,   2.0);
    (471816.6, 3752527.1,   500.6,   513.0,   2.0);   (471736.8, 3752557.9,
     501.5,   501.5,   2.0);
    (471696.6, 3752558.9,   500.0,   500.0,   2.0);   (471627.3, 3752556.2,
     501.9,   512.0,   2.0);
    (471584.6, 3752556.8,   504.5,   507.0,   2.0);   (471560.0, 3752556.2,
     504.6,   507.0,   2.0);
    (471534.3, 3752554.9,   503.2,   509.0,   2.0);   (471514.9, 3752554.9,
     502.2,   519.0,   2.0);
    (471486.8, 3752555.7,   503.1,   503.1,   2.0);   (471465.7, 3752555.4,

```
              498.6,        498.6,         2.0);
 ( 470470.3,  3751844.0,        497.9,        497.9,         2.0);          ( 470470.2,  3751824.5,
              496.6,        496.6,         2.0);
 ( 470470.3,  3751805.8,        495.7,        499.0,         2.0);          ( 470470.3,  3751788.0,
              495.1,        502.0,         2.0);
 ( 470470.3,  3751761.2,        497.6,        497.6,         2.0);          ( 470471.0,  3751741.9,
              499.5,        499.5,         2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   09:49:03

                 PAGE 57
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                             (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                           (METERS)

```
 ( 470470.0,  3751722.8,        501.4,        501.4,         2.0);          ( 470470.2,  3751703.4,
     503.3,        503.3,         2.0);
 ( 470470.2,  3751683.8,        504.9,        504.9,         2.0);          ( 470470.3,  3751664.3,
     506.2,        506.2,         2.0);
 ( 470470.3,  3751642.4,        507.6,        507.6,         2.0);          ( 470470.5,  3751621.8,
     508.5,        508.5,         2.0);
 ( 470470.2,  3751599.8,        509.0,        509.0,         2.0);          ( 470470.6,  3751578.8,
     509.1,        509.1,         2.0);
 ( 470469.6,  3751555.9,        507.6,        507.6,         2.0);          ( 470470.0,  3751512.5,
     504.8,        512.0,         2.0);
 ( 470468.6,  3751414.6,        501.8,        513.0,         2.0);          ( 470469.8,  3751385.2,
     507.1,        513.0,         2.0);
 ( 470468.6,  3751358.9,        509.6,        509.6,         2.0);          ( 470462.9,  3751325.6,
     511.9,        511.9,         2.0);
 ( 470462.0,  3751310.6,        512.6,        512.6,         2.0);          ( 470462.6,  3751296.6,
     512.4,        512.4,         2.0);
 ( 470462.6,  3751283.3,        512.0,        512.0,         2.0);          ( 470462.6,  3751269.9,
     511.1,        511.1,         2.0);
 ( 470462.9,  3751254.3,        509.6,        512.0,         2.0);          ( 470462.0,  3751240.7,
     508.9,        508.9,         2.0);
 ( 470463.2,  3751227.6,        509.4,        509.4,         2.0);          ( 470756.4,  3751290.6,
     507.7,        525.0,         2.0);
 ( 470797.7,  3751268.3,        507.7,        525.0,         2.0);          ( 470891.2,  3751226.4,
     512.0,        512.0,         2.0);
 ( 470940.8,  3751191.8,        512.1,        512.1,         2.0);          ( 471000.6,  3750923.6,
     523.8,        523.8,         2.0);
 ( 471029.3,  3750923.6,        523.7,        523.7,         2.0);          ( 471056.3,  3750923.9,
     524.2,        542.0,         2.0);
 ( 471077.9,  3750924.4,        524.8,        543.0,         2.0);          ( 471097.6,  3750924.4,
     525.7,        543.0,         2.0);
 ( 471118.2,  3750925.0,        528.0,        543.0,         2.0);          ( 471139.0,  3750927.4,
     529.8,        543.0,         2.0);
 ( 471160.1,  3750928.8,        530.8,        543.0,         2.0);          ( 471181.1,  3750931.5,
     532.3,        543.0,         2.0);
 ( 471201.7,  3750930.9,        533.3,        543.0,         2.0);          ( 471222.5,  3750931.5,
     533.7,        543.0,         2.0);
 ( 471244.1,  3750931.2,        534.8,        543.0,         2.0);          ( 471264.4,  3750931.7,
     535.7,        538.0,         2.0);
 ( 471284.4,  3750931.7,        536.5,        536.5,         2.0);          ( 471305.8,  3750931.7,
     536.5,        536.5,         2.0);
 ( 471324.7,  3750930.9,        535.8,        535.8,         2.0);          ( 471343.0,  3750930.1,
     534.9,        534.9,         2.0);
 ( 471363.9,  3750929.0,        534.7,        534.7,         2.0);          ( 471382.0,  3750928.8,
     534.8,        534.8,         2.0);
 ( 471400.9,  3750928.2,        535.0,        535.0,         2.0);          ( 471421.1,  3750928.0,
     535.4,        535.4,         2.0);
 ( 471440.6,  3750928.1,        535.6,        535.6,         2.0);          ( 471461.8,  3750927.4,
```

```
               535.7,       535.7,        2.0);
( 471479.8, 3750927.9,       535.9,       535.9,        2.0);            ( 471499.7, 3750927.6,
  536.2,       536.2,        2.0);
( 471519.3, 3750928.8,       536.6,       549.0,        2.0);            ( 471537.0, 3750929.6,
  538.0,       549.0,        2.0);
( 471556.8, 3750930.9,       539.6,       549.0,        2.0);            ( 471580.7, 3750934.1,
  541.7,       549.0,        2.0);
( 471624.0, 3750940.2,       545.0,       549.0,        2.0);            ( 471795.9, 3750950.1,
  548.4,       548.4,        2.0);
( 471796.3, 3750967.9,       547.3,       547.3,        2.0);            ( 471796.7, 3750987.2,
  545.3,       547.0,        2.0);
( 471797.5, 3751006.8,       542.7,       549.0,        2.0);            ( 471796.7, 3751025.3,
  542.0,       547.0,        2.0);
( 471795.9, 3751046.4,       541.1,       541.1,        2.0);            ( 471796.7, 3751073.0,
  540.1,       540.1,        2.0);
( 471797.5, 3751143.8,       537.7,       537.7,        2.0);            ( 471833.0, 3751143.8,
  537.0,       537.0,        2.0);
( 471867.4, 3751144.0,       534.9,       534.9,        2.0);            ( 471891.0, 3751144.4,
  532.9,       532.9,        2.0);
( 471916.6, 3751144.2,       530.9,       530.9,        2.0);            ( 471939.5, 3751144.2,
  529.4,       529.4,        2.0);
( 471963.1, 3751144.4,       525.8,       535.0,        2.0);            ( 471984.2, 3751144.0,
  524.4,       533.0,        2.0);
( 471999.0, 3751163.4,       525.3,       536.0,        2.0);            ( 472000.2, 3751199.1,
  530.8,       530.8,        2.0);
( 471999.8, 3751230.6,       532.9,       532.9,        2.0);            ( 472000.4, 3751251.5,
  534.3,       534.3,        2.0);
( 472000.2, 3751281.1,       536.2,       536.2,        2.0);            ( 472002.0, 3751347.9,
  537.0,       537.0,        2.0);
( 472036.9, 3751348.5,       536.6,       536.6,        2.0);            ( 472063.1, 3751349.3,
  536.5,       536.5,        2.0);
( 472084.6, 3751348.3,       535.8,       535.8,        2.0);            ( 472104.9, 3751348.7,
  534.6,       534.6,        2.0);
( 472127.3, 3751348.5,       533.0,       533.0,        2.0);            ( 472150.8, 3751349.7,
  531.4,       531.4,        2.0);
( 472171.5, 3751349.5,       530.3,       530.3,        2.0);            ( 472194.1, 3751349.1,
  528.2,       531.0,        2.0);
( 472222.6, 3751348.7,       525.4,       536.0,        2.0);            ( 472247.8, 3751349.5,
  523.2,       536.0,        2.0);
( 472269.7, 3751349.1,       520.9,       536.0,        2.0);            ( 472290.4, 3751350.3,
  520.7,       535.0,        2.0);
( 472313.6, 3751350.5,       520.9,       532.0,        2.0);            ( 472333.8, 3751351.3,
  520.6,       532.0,        2.0);
```

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                PAGE 58
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                           *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                       (METERS)

```
( 472354.8, 3751351.3,       518.5,       532.0,        2.0);            ( 472377.7, 3751351.1,
  516.0,       532.0,        2.0);
( 472401.7, 3751351.1,       513.6,       533.0,        2.0);            ( 472425.5, 3751351.8,
  511.8,       532.0,        2.0);
( 472445.7, 3751350.7,       511.1,       532.0,        2.0);            ( 472463.2, 3751350.9,
  509.4,       532.0,        2.0);
( 472484.1, 3751350.9,       507.3,       532.0,        2.0);            ( 472503.9, 3751351.3,
  506.3,       532.0,        2.0);
( 472523.8, 3751351.3,       506.2,       531.0,        2.0);            ( 472543.3, 3751351.3,
  506.4,       506.4,        2.0);
( 472563.2, 3751352.2,       506.1,       506.1,        2.0);            ( 472582.6, 3751352.0,
```

```
                505.8,         505.8,          2.0);
     ( 472601.3, 3751352.0,      505.3,         505.3,          2.0);          ( 472606.8, 3751367.3,
   504.3,        504.3,          2.0);
     ( 472607.6, 3751396.4,      504.2,         504.2,          2.0);          ( 472608.5, 3751432.1,
   505.0,        505.0,          2.0);
     ( 472608.9, 3751462.6,      504.4,         504.4,          2.0);          ( 472609.5, 3751497.1,
   505.0,        505.0,          2.0);
     ( 472610.7, 3751553.8,      505.4,         505.4,          2.0);          ( 472666.0, 3751554.0,
   501.3,        501.3,          2.0);
     ( 472690.4, 3751553.6,      499.8,         499.8,          2.0);          ( 472713.5, 3751554.3,
   499.2,        499.2,          2.0);
     ( 472734.6, 3751554.0,      497.9,         497.9,          2.0);          ( 472759.5, 3751554.0,
   496.2,        496.2,          2.0);
     ( 472781.8, 3751554.5,      494.9,         499.0,          2.0);          ( 472849.8, 3751556.1,
   495.4,        495.4,          2.0);
     ( 472871.8, 3751556.1,      494.9,         494.9,          2.0);          ( 472895.2, 3751555.6,
   494.2,        494.2,          2.0);
     ( 472922.6, 3751555.9,      493.8,         493.8,          2.0);          ( 473092.4, 3751802.3,
   486.1,        486.1,          2.0);
     ( 473204.8, 3751856.8,      481.6,         481.6,          2.0);          ( 472991.2, 3752083.3,
   484.1,        484.1,          2.0);
     ( 473295.1, 3752052.5,      478.7,         478.7,          2.0);          ( 473356.8, 3752050.3,
   476.8,        476.8,          2.0);
     ( 473495.1, 3751996.6,      476.0,         476.0,          2.0);          ( 473486.5, 3751917.7,
   475.8,        475.8,          2.0);
     ( 473392.6, 3752058.2,      475.9,         475.9,          2.0);          ( 473464.3, 3752082.6,
   475.2,        475.2,          2.0);
     ( 473550.3, 3752087.6,      473.0,         473.0,          2.0);          ( 473584.7, 3752089.8,
   473.0,        473.0,          2.0);
     ( 472765.6, 3752474.1,      477.2,         495.0,          2.0);          ( 470432.2, 3750483.9,
   532.6,        532.6,          2.0);
     ( 469244.1, 3754182.8,      471.3,         485.0,          2.0);          ( 469596.8, 3750785.6,
   493.4,        493.4,          2.0);
     ( 470466.5, 3750530.3,      535.0,         535.0,          2.0);          ( 469319.3, 3749244.5,
   500.0,        500.0,          2.0);
     ( 469229.6, 3749502.2,      503.4,         503.4,          2.0);          ( 468465.4, 3749582.3,
   490.5,        490.5,          2.0);
     ( 471438.4, 3750129.8,      539.2,         539.2,          2.0);          ( 471657.5, 3749918.8,
   535.4,        535.4,          2.0);
     ( 471732.9, 3749916.5,      534.7,         534.7,          2.0);          ( 471710.3, 3750132.8,
   537.0,        537.0,          2.0);
     ( 471273.9, 3750119.8,      540.5,         540.5,
   2.0);
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                  PAGE 59
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                   *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                             (1=YES; 0=NO)

        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
            1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

                NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
                INCLUDED IN THE DATA FILE.

                           *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                           ***
                                              (METERS/SEC)

                                  1.54,   3.09,   5.14,   8.23, 10.80,
FF *** AERMOD – VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET – VERSION 16216 ***
 ***   ***   09:49:03

                PAGE 60
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:   3171   Upper air station no.:   3190
               Name: UNKNOWN   Name:
               UNKNOWN
               Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS
 WD   HT REF TA   HT
- -
- - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15   2.40   1.00   2.93
 55.   10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15   2.40   1.00   3.05
 55.   10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15   2.40   1.00   2.45
 74.   10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15   2.40   1.00   2.52
 77.   10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15   2.40   1.00   2.30
 80.   10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15   2.40   1.00   1.93
 79.   10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15   2.40   1.00   1.96
 77.   10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15   2.40   0.53   1.89
 77.   10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15   2.40   0.31   2.10
 81.   10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005 129. 293.   -11.8 0.15   2.40   0.24   1.99
 101.   10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005 369. 611.   -35.6 0.15   2.40   0.21   3.68

```
78.   10.1  298.8    2.0
12 01 01   1 12  184.7 0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
68.   10.1  300.4    2.0
12 01 01   1 13  183.9 0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
64.   10.1  302.5    2.0
12 01 01   1 14  156.6 0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
63.   10.1  303.1    2.0
12 01 01   1 15  104.3 0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
62.   10.1  302.5    2.0
12 01 01   1 16   31.8 0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
69.   10.1  300.9    2.0
12 01 01   1 17  -23.3 0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
59.   10.1  297.5    2.0
12 01 01   1 18  -21.5 0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
54.   10.1  295.4    2.0
12 01 01   1 19  -19.3 0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
79.   10.1  292.0    2.0
12 01 01   1 20  -20.7 0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
79.   10.1  292.5    2.0
12 01 01   1 21  -19.7 0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
95.   10.1  290.9    2.0
12 01 01   1 22  -17.6 0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
78.   10.1  290.4    2.0
12 01 01   1 23  -20.3 0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4 0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

```
                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP:  ALL       ***
                            INCLUDING SOURCE(S):    VOL1         , VOL2        ,
                                 VOL3        , VOL4       , VOL5       ,
             VOL6        , VOL7        , VOL8       , VOL9        , VOL10       ,
             VOL11       , VOL12       , VOL13      ,
             VOL14       , VOL15       , VOL16      , VOL17        , VOL18      ,
             VOL19       , VOL20       , VOL21      ,
             VOL22       , VOL23       , VOL24      , VOL25       , VOL26       ,
             VOL27       , VOL28       , . . .      ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                        ** CONC OF PM_2.5   IN
                        MICROGRAMS/M**3                              **

    X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
     472283.74  3752640.98       0.16903  (13100924)            472482.23
     3752398.04     0.20972m (13112124)
     472477.97  3752183.12       0.24481c (12121724)            472148.10
     3752531.53     0.27746  (13100924)
```

472052.12	3752531.22	0.32318	(13100924)	471975.52
3752531.22		0.33123	(13100924)	
471896.06	3752530.90	0.34153	(13100924)	471840.76
3752529.94		0.34252	(13100924)	
471816.60	3752527.08	0.33983	(13100924)	471736.82
3752557.91		0.32718	(13100924)	
471696.59	3752558.87	0.32745	(13100924)	471627.29
3752556.22		0.33205	(13100924)	
471584.60	3752556.76	0.32832	(13100924)	471560.01
3752556.22		0.33491	(16010624)	
471534.35	3752554.87	0.34045	(16010624)	471514.89
3752554.87		0.34048	(16010624)	
471486.79	3752555.68	0.34269	(16010624)	471465.72
3752555.41		0.34277	(16010624)	
471442.21	3752554.98	0.33804	(16010624)	471419.71
3752552.46		0.33878	(16010624)	
471394.22	3752552.91	0.34034	(16010624)	471363.44
3752552.46		0.34688	(16010624)	
471332.68	3752553.31	0.35020	(16010624)	471307.62
3752552.94		0.35199	(16010624)	
471284.05	3752552.70	0.35018	(16010624)	471261.98
3752552.70		0.34810	(16010624)	
471241.90	3752552.70	0.34696	(16010624)	471223.15
3752552.86		0.34680	(16010624)	
471205.90	3752552.86	0.34746	(16010624)	471173.21
3752552.37		0.35130	(16010624)	
471135.70	3752552.53	0.35736	(16010624)	471093.22
3752551.54		0.36698	(16010624)	
471059.37	3752551.70	0.36975	(16010624)	471020.54
3752551.20		0.36262	(16010624)	
470981.05	3752563.65	0.31329	(16010524)	470980.39
3752552.20		0.33573	(16010524)	
470980.06	3752535.61	0.37248	(16010524)	470979.89
3752517.19		0.41793	(16010524)	
470980.06	3752499.76	0.47302	(14121224)	470980.22
3752479.85		0.51608	(14121224)	
470980.39	3752459.44	0.54616	(14121224)	470980.22
3752433.22		0.56424	(14121224)	
470980.06	3752404.02	0.59854	(12121324)	470927.12
3752402.69		0.37846	(14121224)	
470907.87	3752402.69	0.34132	(14121224)	470887.30
3752402.69		0.30947	(14121224)	
470869.71	3752402.03	0.28927	(14121224)	470849.63
3752401.86		0.26892	(14121224)	
470829.39	3752402.19	0.25087	(14121224)	470811.63
3752402.19		0.23685	(14121224)	
470791.55	3752402.53	0.22259	(14121224)	470773.63
3752401.86		0.21129	(14121224)	
470749.24	3752402.19	0.19747	(14121224)	470727.72
3752391.74		0.18829	(14121224)	
470733.04	3752338.97	0.19788	(14121224)	470733.70
3752320.55		0.20024	(14121224)	
470734.20	3752291.01	0.20374	(14121224)	470733.20
3752265.78		0.20584	(14121224)	
470732.87	3752218.81	0.21339	(15112724)	470732.54
3752182.14		0.21908	(15112724)	
470732.37	3752145.29	0.22505	(15112724)	470692.38
3752144.80		0.20438	(15112724)	
470670.14	3752144.46	0.19441	(15112724)	470651.72
3752144.30		0.18682	(15112724)	
470633.46	3752144.13	0.17981	(15112724)	470615.54
3752143.97		0.17339	(15112724)	
470595.95	3752143.30	0.16691	(15112724)	470577.03
3752143.47		0.16096	(15112724)	
470553.63	3752143.47	0.15415	(15112724)	470528.57
3752142.64		0.14749	(15112724)	

```
     470507.99    3752142.80          0.14229  (15112724)                    470485.59
     3752142.47          0.13703  (15112724)
     470471.60    3752131.63          0.13518  (15112724)                    470471.60
     3752109.21          0.13783  (15112724)
     470471.32    3752085.22          0.14056  (15112724)                    470471.46
     3752037.68          0.14601  (15112724)
     470471.74    3752013.00          0.14875  (15112724)                    470470.89
     3751987.18          0.15116  (15112724)
     470470.89    3751965.74          0.15317  (15112724)                    470470.75
     3751944.44          0.15494  (15112724)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                         PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                  VOL3   , VOL4   , VOL5   ,
              VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,
              VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
              VOL19   , VOL20   , VOL21   ,
              VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
              VOL27   , VOL28   , . . .   ,

                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF PM_2.5   IN
                          MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - -
     470470.61   3751924.27   0.15639 (15112724)   470470.47
     3751905.93   0.15751 (15112724)
     470470.89   3751884.06   0.15877 (15112724)   470470.61
     3751864.03   0.15945 (15112724)
     470470.33   3751844.00   0.15982 (15112724)   470470.19
     3751824.53   0.15991 (15112724)
     470470.33   3751805.77   0.15984 (15112724)   470470.33
     3751788.00   0.15954 (15112724)
     470470.33   3751761.19   0.15910 (15112724)   470471.03
     3751741.87   0.15863 (15112724)
     470470.05   3751722.82   0.15736 (15112724)   470470.19
     3751703.36   0.15608 (15112724)
     470470.19   3751683.75   0.15551 (14121624)   470470.33
     3751664.28   0.15496 (14121624)
     470470.33   3751642.41   0.15398 (14121624)   470470.47
     3751621.82   0.15284 (14121624)
     470470.19   3751599.81   0.15187 (16122924)   470470.61
     3751578.79   0.15298c (14123024)
     470469.62   3751555.94   0.15453c (14123024)   470470.05
     3751512.49   0.15730c (14123024)
     470468.64   3751414.59   0.15789c (14123024)   470469.76
     3751385.25   0.15791c (14123024)
     470468.65   3751358.95   0.15647c (14123024)   470462.93
     3751325.56   0.15286c (14123024)
     470461.98   3751310.62   0.15164c (14123024)   470462.61
     3751296.63   0.15087c (14123024)
     470462.61   3751283.28   0.14994c (14123024)   470462.61
     3751269.92   0.14897c (14123024)

```
470462.93    3751254.35        0.14789c (14123024)              470461.98
3751240.67        0.14679 (13012524)
470463.25    3751227.64        0.14695 (13012524)               470756.39
3751290.59        0.27158 (12121324)
470797.72    3751268.33        0.28833 (12121324)               470891.19
3751226.38        0.32009 (12121324)
470940.78    3751191.82        0.31587 (12121324)               471000.61
3750923.63        0.19819m (14123124)
471029.26    3750923.63        0.20845m (14123124)              471056.29
3750923.90        0.21702m (14123124)
471077.91    3750924.44        0.22265m (14123124)              471097.64
3750924.44        0.22631m (14123124)
471118.18    3750924.98        0.22865m (14123124)              471138.99
3750927.42        0.23081m (14123124)
471160.07    3750928.77        0.23119m (14123124)              471181.15
3750931.47        0.23070m (14123124)
471201.69    3750930.93        0.22796m (14123124)              471222.50
3750931.47        0.22544m (14123124)
471244.13    3750931.20        0.22156m (14123124)              471264.40
3750931.74        0.21835m (14123124)
471284.40    3750931.74        0.21529m (14123124)              471305.75
3750931.74        0.21285m (14123124)
471324.67    3750930.93        0.21092m (14123124)              471343.05
3750930.12        0.20876m (14123124)
471363.86    3750929.04        0.20509m (14123124)              471381.96
3750928.77        0.20105m (14123124)
471400.88    3750928.23        0.19520m (14123124)              471421.15
3750927.96        0.18710m (14123124)
471440.59    3750928.11        0.17919 (15122824)               471461.83
3750927.45        0.18045 (15122824)
471479.76    3750927.95        0.18192 (15122824)               471499.68
3750927.62        0.18313 (15122824)
471519.26    3750928.78        0.18495 (15122824)               471537.02
3750929.61        0.18728 (15122824)
471556.77    3750930.94        0.18896 (15122824)               471580.68
3750934.09        0.19155 (15122824)
471624.00    3750940.23        0.19177 (15122824)               471795.90
3750950.11        0.16585 (15122824)
471796.29    3750967.88        0.17184 (15122824)               471796.69
3750987.22        0.17908 (15122824)
471797.47    3751006.75        0.18692 (15122824)               471796.69
3751025.30        0.19455 (15122824)
471795.90    3751046.40        0.20311 (15122824)               471796.69
3751072.96        0.21379 (15122824)
471797.47    3751143.85        0.24664 (15122824)               471833.01
3751143.85        0.22939 (15122824)
471867.38    3751144.05        0.21387 (15122824)               471891.02
3751144.44        0.20635 (15122824)
471916.60    3751144.24        0.19866 (15122824)               471939.45
3751144.24        0.19076 (15122824)
471963.08    3751144.44        0.18458 (15122824)               471984.17
3751144.05        0.17774 (15122824)
```

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                  PAGE 63
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,

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          VOL14        , VOL15        , VOL16       , VOL17       , VOL18        ,
          VOL19        , VOL20        , VOL21       ,
          VOL22        , VOL23        , VOL24       , VOL25       , VOL26        ,
          VOL27        , VOL28        ,  . . .      ,
```

                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF PM_2.5   IN
                          MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	0.17782	(15122824)	472000.19	3751199.12	0.18389	(15122824)
471999.80	3751230.56	0.19092	(15122824)	472000.38	3751251.46	0.19516	(15122824)
472000.19	3751281.15	0.20639	(13112024)	472001.95	3751347.94	0.23657	(13112024)
472036.90	3751348.52	0.22137	(13112024)	472063.07	3751349.31	0.21137	(13112024)
472084.56	3751348.33	0.20379	(13112024)	472104.87	3751348.72	0.19812	(13112024)
472127.33	3751348.52	0.19230	(13112024)	472150.76	3751349.70	0.18717	(13112024)
472171.47	3751349.50	0.18238	(13112024)	472194.12	3751349.11	0.17809	(13112024)
472222.63	3751348.72	0.17329	(13112024)	472247.83	3751349.50	0.16969	(13112024)
472269.70	3751349.11	0.16684	(13112024)	472290.40	3751350.28	0.16372	(13112024)
472313.64	3751350.48	0.16004	(13112024)	472333.76	3751351.26	0.15749	(13112024)
472354.85	3751351.26	0.15579	(13112024)	472377.70	3751351.06	0.15432	(13112024)
472401.72	3751351.06	0.15287	(13112024)	472425.55	3751351.84	0.15055	(13112024)
472445.67	3751350.67	0.14815	(13112024)	472463.24	3751350.87	0.14647	(13112024)
472484.14	3751350.87	0.14436	(13112024)	472503.87	3751351.26	0.14233	(13112024)
472523.79	3751351.26	0.14009	(13112024)	472543.32	3751351.26	0.13785	(13112024)
472563.24	3751352.24	0.13577	(13112024)	472582.57	3751352.04	0.13353	(13112024)
472601.32	3751352.04	0.13141	(13112024)	472606.79	3751367.27	0.13375	(13112024)
472607.57	3751396.37	0.13954	(13112024)	472608.55	3751432.11	0.14738	(13112024)
472608.94	3751462.58	0.15523	(13112024)	472609.52	3751497.15	0.16554	(13112024)
472610.70	3751553.78	0.18809	(13112024)	472665.97	3751553.98	0.18033	(13112024)
472690.38	3751553.59	0.17706	(13112024)	472713.50	3751554.27	0.17457	(13112024)
472734.64	3751554.04	0.17215	(13112024)	472759.46	3751554.04	0.16953	(13112024)
472781.75	3751554.50	0.16736	(13112024)	472849.76	3751556.11	0.15939	(13112024)
472871.82	3751556.11	0.15600	(13112024)	472895.25	3751555.65	0.15195	(13112024)
472922.60	3751555.88	0.14738	(13112024)	473092.41	3751802.31	0.28466	(12042324)
473204.80	3751856.81	0.22834	(12042324)	472991.21	3752083.31	0.26325m	(13112124)

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     473295.12    3752052.49          0.16552m (13112124)                    473356.76
     3752050.34         0.14242m (13112124)
     473495.10    3751996.58          0.12604  (15042424)                    473486.50
     3751917.74         0.13323  (12050124)
     473392.60    3752058.22          0.13356m (13112124)                    473464.28
     3752082.59         0.12132m (13112124)
     473550.29    3752087.61          0.11027  (13020524)                    473584.69
     3752089.76         0.10747  (13020524)
     472765.59    3752474.09          0.14829m (13112124)                    470432.16
     3750483.93         0.11553  (12121324)
     469244.06    3754182.82          0.02372  (15122924)                    469596.75
     3750785.65         0.09625  (13012524)
     470466.55    3750530.27          0.12128  (12121324)                    469319.29
     3749244.53         0.04153  (12010224)
     469229.64    3749502.19          0.04437  (13012524)                    468465.38
     3749582.33         0.05934  (13012524)
     471438.37    3750129.76          0.05929  (16011524)                    471657.54
     3749918.78         0.05353  (15122824)
     471732.91    3749916.52          0.05310  (15122824)                    471710.30
     3750132.80         0.06334  (15122824)
     471273.89    3750119.77          0.05927
     (12012424)
```

🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                    PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                              ** CONC OF PM_2.5   IN
                              MICROGRAMS/M**3   **

                                          DATE
                                                                          NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   0.59854 ON 12121324: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   09:49:03

                    PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons CO Mit\14064
Cons CO Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons CO Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1           VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2           VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3           VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4           VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5           VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6           VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7           VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8           VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9           VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10          VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11          VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12          VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13          VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14          VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15          VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16          VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17          VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18          VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19          VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20          VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21          VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22          VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23          VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24          VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25          VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26          VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27          VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28          VOLUME      471389.172  3751619.077      534.860
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LOCATION VOL29        VOLUME     471577.888  3751616.698      529.000
LOCATION VOL30        VOLUME     471724.580  3751620.663      533.750
LOCATION VOL31        VOLUME     471941.049  3751865.677      534.600
LOCATION VOL32        VOLUME     471795.151  3751684.890      537.260
LOCATION VOL33        VOLUME     471577.888  3751434.325      531.060
LOCATION VOL34        VOLUME     471389.965  3751431.946      537.260
LOCATION VOL35        VOLUME     471202.041  3751467.628      526.830
LOCATION VOL36        VOLUME     471065.657  3751504.895      521.960
LOCATION VOL37        VOLUME     471656.388  3751514.411      529.480
LOCATION VOL38        VOLUME     471522.384  3751324.108      529.000
LOCATION VOL39        VOLUME     471332.874  3751322.522      529.530
LOCATION VOL40        VOLUME     471282.920  3751321.729      528.170
LOCATION VOL41        VOLUME     471233.758  3751388.335      528.470
LOCATION VOL42        VOLUME     472135.642  3751845.064      525.790
LOCATION VOL43        VOLUME     472323.361  3751843.460      510.520
LOCATION VOL44        VOLUME     472512.544  3751852.284      501.450
LOCATION VOL45        VOLUME     472698.022  3751875.469      491.390
LOCATION VOL46        VOLUME     472880.772  3751928.657      487.900
LOCATION VOL47        VOLUME     472608.011  3752044.580      498.520
LOCATION VOL48        VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
SRCPARAM VOL1         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL2         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL3         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL4         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL5         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL6         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL7         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL8         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL9         0.1525952457     5.000     43.702     1.400
SRCPARAM VOL10        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL11        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL12        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL13        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL14        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL15        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL16        0.1525952457     5.000     43.702     1.400
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SRCPARAM VOL20        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL21        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL22        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL23        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL24        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL25        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL26        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL27        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL28        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL29        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL30        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL31        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL32        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL33        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL34        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL35        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL36        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL37        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL38        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL39        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL40        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL41        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL42        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL43        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL44        0.1525952457     5.000     43.702     1.400
SRCPARAM VOL45        0.1525952457     5.000     43.702     1.400
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    SRCPARAM VOL46           0.1525952457      5.000    43.702     1.400
    SRCPARAM VOL47           0.1525952457      5.000    43.702     1.400
    SRCPARAM VOL48           0.1525952457      5.000    43.702     1.400
    URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL4           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    SMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
    EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
    INCLUDED "14064 Cons CO Mit.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 1 1ST
    RECTABLE 8 1ST
** Auto-Generated Plotfiles
    PLOTFILE 1 ALL 1ST "14064 CONS CO MIT.AD\01H1GALL.PLT" 31
    PLOTFILE 8 ALL 1ST "14064 CONS CO MIT.AD\08H1GALL.PLT" 32
    SUMMFILE "14064 Cons CO Mit.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***



     ********    WARNING MESSAGES    ********
 ME W186     881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

▦ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
```

```
                                      ***       MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    48 Source(s),
       for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO


**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR


**This Run Includes:     48 Source(s);       1 Source Group(s); and     233 Receptor(s)


               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
               and:      48 VOLUME source(s)
               and:       0 AREA type source(s)
               and:       0 LINE source(s)
               and:       0 RLINE/RLINEXT source(s)
               and:       0 OPENPIT source(s)
               and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
               and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                                ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3
```

```
     **Approximate Storage Requirements of Model =      3.6 MB of RAM.


     **Input Runstream File:
     aermod.inp
     **Output Print File:
     aermod.out

     **Detailed Error/Message File:   14064 Cons CO
      Mit.err
     **File for Summary of Results:   14064 Cons CO
      Mit.sum
     ██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
     Campus\14064 Ops\140 ***       10/26/23
      *** AERMET - VERSION  16216 ***
      ***                                                          ***       10:42:13


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      *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*



                                         *** VOLUME SOURCE DATA ***

                 NUMBER EMISSION RATE                 BASE    RELEASE    INIT.    INIT.
                 URBAN  EMISSION RATE
       SOURCE    PART.  (GRAMS/SEC)    X        Y      ELEV.   HEIGHT     SY       SZ
       SOURCE  SCALAR VARY
         ID      CATS.            (METERS) (METERS) (METERS) (METERS) (METERS)
        (METERS)          BY
     - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     - - - - - - - - - - - - - -

     VOL1          0   0.15260E+00  471175.5 3752366.4   510.2    5.00     43.70    1.40
     YES    HRDOW
     VOL2          0   0.15260E+00  471362.2 3752367.6   512.4    5.00     43.70    1.40
     YES    HRDOW
     VOL3          0   0.15260E+00  471550.1 3752368.4   518.9    5.00     43.70    1.40
     YES    HRDOW
     VOL4          0   0.15260E+00  471609.6 3752371.6   516.0    5.00     43.70    1.40
     YES    HRDOW
     VOL5          0   0.15260E+00  471796.7 3752342.2   515.1    5.00     43.70    1.40
     YES    HRDOW
     VOL6          0   0.15260E+00  471984.7 3752344.6   513.6    5.00     43.70    1.40
     YES    HRDOW
     VOL7          0   0.15260E+00  472003.7 3752347.0   512.1    5.00     43.70    1.40
     YES    HRDOW
     VOL8          0   0.15260E+00  472002.9 3752159.1   521.6    5.00     43.70    1.40
     YES    HRDOW
     VOL9          0   0.15260E+00  471814.2 3752156.7   520.7    5.00     43.70    1.40
     YES    HRDOW
     VOL10         0   0.15260E+00  471628.6 3752181.3   526.8    5.00     43.70    1.40
     YES    HRDOW
     VOL11         0   0.15260E+00  471440.7 3752181.3   527.4    5.00     43.70    1.40
     YES    HRDOW
     VOL12         0   0.15260E+00  471253.6 3752180.5   518.9    5.00     43.70    1.40
     YES    HRDOW
     VOL13         0   0.15260E+00  471092.6 3752217.7   509.6    5.00     43.70    1.40
     YES    HRDOW
     VOL14         0   0.15260E+00  471074.4 3752029.0   516.1    5.00     43.70    1.40
     YES    HRDOW
     VOL15         0   0.15260E+00  471263.9 3751992.5   521.1    5.00     43.70    1.40
     YES    HRDOW
     VOL16         0   0.15260E+00  471452.6 3751994.1   530.0    5.00     43.70    1.40
     YES    HRDOW
     VOL17         0   0.15260E+00  471640.5 3751992.5   534.9    5.00     43.70    1.40
     YES    HRDOW
     VOL18         0   0.15260E+00  471827.7 3751968.0   533.0    5.00     43.70    1.40
```

```
YES    HRDOW
VOL19             0  0.15260E+00  472002.9 3751970.3   527.9    5.00    43.70    1.40
YES    HRDOW
VOL20             0  0.15260E+00  471845.1 3751780.0   538.8    5.00    43.70    1.40
YES    HRDOW
VOL21             0  0.15260E+00  471657.2 3751803.8   536.0    5.00    43.70    1.40
YES    HRDOW
VOL22             0  0.15260E+00  471468.5 3751806.2   528.3    5.00    43.70    1.40
YES    HRDOW
VOL23             0  0.15260E+00  471280.5 3751807.0   525.0    5.00    43.70    1.40
YES    HRDOW
VOL24             0  0.15260E+00  471093.4 3751841.9   515.6    5.00    43.70    1.40
YES    HRDOW
VOL25             0  0.15260E+00  470978.4 3751841.9   518.1    5.00    43.70    1.40
YES    HRDOW
VOL26             0  0.15260E+00  471014.1 3751654.8   520.4    5.00    43.70    1.40
YES    HRDOW
VOL27             0  0.15260E+00  471201.2 3751654.8   525.1    5.00    43.70    1.40
YES    HRDOW
VOL28             0  0.15260E+00  471389.2 3751619.1   534.9    5.00    43.70    1.40
YES    HRDOW
VOL29             0  0.15260E+00  471577.9 3751616.7   529.0    5.00    43.70    1.40
YES    HRDOW
VOL30             0  0.15260E+00  471724.6 3751620.7   533.8    5.00    43.70    1.40
YES    HRDOW
VOL31             0  0.15260E+00  471941.0 3751865.7   534.6    5.00    43.70    1.40
YES    HRDOW
VOL32             0  0.15260E+00  471795.2 3751684.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL33             0  0.15260E+00  471577.9 3751434.3   531.1    5.00    43.70    1.40
YES    HRDOW
VOL34             0  0.15260E+00  471390.0 3751431.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL35             0  0.15260E+00  471202.0 3751467.6   526.8    5.00    43.70    1.40
YES    HRDOW
VOL36             0  0.15260E+00  471065.7 3751504.9   522.0    5.00    43.70    1.40
YES    HRDOW
VOL37             0  0.15260E+00  471656.4 3751514.4   529.5    5.00    43.70    1.40
YES    HRDOW
VOL38             0  0.15260E+00  471522.4 3751324.1   529.0    5.00    43.70    1.40
YES    HRDOW
VOL39             0  0.15260E+00  471332.9 3751322.5   529.5    5.00    43.70    1.40
YES    HRDOW
VOL40             0  0.15260E+00  471282.9 3751321.7   528.2    5.00    43.70    1.40
YES    HRDOW
```

██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - - -

VOL41   0 0.15260E+00 471233.8 3751388.3   528.5   5.00   43.70   1.40

```
YES   HRDOW
VOL42              0    0.15260E+00   472135.6 3751845.1   525.8     5.00     43.70      1.40
YES   HRDOW
VOL43              0    0.15260E+00   472323.4 3751843.5   510.5     5.00     43.70      1.40
YES   HRDOW
VOL44              0    0.15260E+00   472512.5 3751852.3   501.4     5.00     43.70      1.40
YES   HRDOW
VOL45              0    0.15260E+00   472698.0 3751875.5   491.4     5.00     43.70      1.40
YES   HRDOW
VOL46              0    0.15260E+00   472880.8 3751928.7   487.9     5.00     43.70      1.40
YES   HRDOW
VOL47              0    0.15260E+00   472608.0 3752044.6   498.5     5.00     43.70      1.40
YES   HRDOW
VOL48              0    0.15260E+00   471084.5 3752407.2   506.8     5.00     43.70      1.40
YES   HRDOW
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

  SRCGROUP ID   SOURCE IDs
  -----------   ----------

   ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
   VOL7   , VOL8   ,

              VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
              VOL15   , VOL16   ,

              VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
              VOL23   , VOL24   ,

              VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
              VOL31   , VOL32   ,

              VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
              VOL39   , VOL40   ,

              VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
              VOL47   , VOL48   ,

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   ,
   VOL8   ,

```
              VOL9          , VOL10         , VOL11         , VOL12         , VOL13         , VOL14         ,
              VOL15         , VOL16         ,

              VOL17         , VOL18         , VOL19         , VOL20         , VOL21         , VOL22         ,
              VOL23         , VOL24         ,

              VOL25         , VOL26         , VOL27         , VOL28         , VOL29         , VOL30         ,
              VOL31         , VOL32         ,

              VOL33         , VOL34         , VOL35         , VOL36         , VOL37         , VOL38         ,
              VOL39         , VOL40         ,

              VOL41         , VOL42         , VOL43         , VOL44         , VOL45         , VOL46         ,
              VOL47         , VOL48         ,
```

▌▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

▌▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
- - - - - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

**** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                      PAGE   8
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL3          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

**** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL4        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL5        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***       10:42:13


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***       10:42:13


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL8         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL9         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL10   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                   DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL11   ; SOURCE TYPE = VOLUME   :

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ⬛⬛ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 20
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                        PAGE 21
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
```

```
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                      ***      10:42:13
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                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL17        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                      ***      10:42:13
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                    PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL18        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```

```
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
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██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***          10:42:13
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                    PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME  :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
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██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***          10:42:13
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                    PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
```

```
                         (HRDOW)  *

 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 26
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

                     PAGE 27
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                     PAGE 28
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▐F▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 29
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▐F▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 30
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE 31
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL26       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE 32
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL27       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- -
- -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 33
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL28   ; SOURCE TYPE = VOLUME :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL29       ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***         10:42:13
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*** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL30       ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .00D00E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 36
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL31   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 37
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL32   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE 38
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
**FF** *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       10:42:13


                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE 40
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE 41
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🄿🄵 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

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                   PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🄿🄵 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***

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                  PAGE  43
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL38         ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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                  PAGE  44
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL39         ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                    PAGE 45
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL40   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```

▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        10:42:13

                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL41        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                   PAGE 47
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```

▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***        10:42:13


                   PAGE  48
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = VOL43        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***      10:42:13


                 PAGE  49
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***      10:42:13


                 PAGE  50
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*
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                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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 ▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 52
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                    PAGE 53
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23   .0000E+00   24   .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 54
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)


```
   ( 472283.7, 3752641.0,    492.6,     492.6,     2.0);      ( 472482.2, 3752398.0,
     499.3,     499.3,      2.0);
   ( 472478.0, 3752183.1,    505.1,     505.1,     2.0);      ( 472148.1, 3752531.5,
     495.2,     502.0,      2.0);
   ( 472052.1, 3752531.2,    499.4,     512.0,     2.0);      ( 471975.5, 3752531.2,
     500.5,     514.0,      2.0);
   ( 471896.1, 3752530.9,    503.4,     513.0,     2.0);      ( 471840.8, 3752529.9,
     503.4,     513.0,      2.0);
   ( 471816.6, 3752527.1,    500.6,     513.0,     2.0);      ( 471736.8, 3752557.9,
     501.5,     501.5,      2.0);
   ( 471696.6, 3752558.9,    500.0,     500.0,     2.0);      ( 471627.3, 3752556.2,
     501.9,     512.0,      2.0);
   ( 471584.6, 3752556.8,    504.5,     507.0,     2.0);      ( 471560.0, 3752556.2,
     504.6,     507.0,      2.0);
   ( 471534.3, 3752554.9,    503.2,     509.0,     2.0);      ( 471514.9, 3752554.9,
     502.2,     519.0,      2.0);
   ( 471486.8, 3752555.7,    503.1,     503.1,     2.0);      ( 471465.7, 3752555.4,
     503.1,     503.1,      2.0);
   ( 471442.2, 3752555.0,    501.3,     505.0,     2.0);      ( 471419.7, 3752552.5,
     500.3,     505.0,      2.0);
   ( 471394.2, 3752552.9,    501.4,     501.4,     2.0);      ( 471363.4, 3752552.5,
     503.5,     503.5,      2.0);
   ( 471332.7, 3752553.3,    505.8,     505.8,     2.0);      ( 471307.6, 3752552.9,
     506.9,     506.9,      2.0);
   ( 471284.0, 3752552.7,    506.2,     506.2,     2.0);      ( 471262.0, 3752552.7,
     505.7,     505.7,      2.0);
   ( 471241.9, 3752552.7,    505.6,     505.6,     2.0);      ( 471223.1, 3752552.9,
     505.9,     505.9,      2.0);
   ( 471205.9, 3752552.9,    506.2,     506.2,     2.0);      ( 471173.2, 3752552.4,
     506.5,     506.5,      2.0);
   ( 471135.7, 3752552.5,    506.1,     506.1,     2.0);      ( 471093.2, 3752551.5,
     505.4,     505.4,      2.0);
   ( 471059.4, 3752551.7,    504.7,     504.7,     2.0);      ( 471020.5, 3752551.2,
     503.1,     503.1,      2.0);
   ( 470981.0, 3752563.6,    502.1,     502.1,     2.0);      ( 470980.4, 3752552.2,
     502.5,     502.5,      2.0);
   ( 470980.1, 3752535.6,    503.0,     503.0,     2.0);      ( 470979.9, 3752517.2,
     503.7,     503.7,      2.0);
   ( 470980.1, 3752499.8,    504.0,     504.0,     2.0);      ( 470980.2, 3752479.8,
     504.0,     504.0,      2.0);
   ( 470980.4, 3752459.4,    504.6,     504.6,     2.0);      ( 470980.2, 3752433.2,
     505.4,     505.4,      2.0);
   ( 470980.1, 3752404.0,    506.0,     506.0,     2.0);      ( 470927.1, 3752402.7,
     504.9,     504.9,      2.0);
   ( 470907.9, 3752402.7,    503.1,     503.1,     2.0);      ( 470887.3, 3752402.7,
     500.9,     505.0,      2.0);
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( 470869.7, 3752402.0,    500.7,    500.7,    2.0);         ( 470849.6, 3752401.9,
500.3,    500.3,    2.0);
( 470829.4, 3752402.2,    500.0,    500.0,    2.0);         ( 470811.6, 3752402.2,
499.7,    499.7,    2.0);
( 470791.5, 3752402.5,    499.2,    499.2,    2.0);         ( 470773.6, 3752401.9,
498.6,    498.6,    2.0);
( 470749.2, 3752402.2,    497.8,    497.8,    2.0);         ( 470727.7, 3752391.7,
497.8,    497.8,    2.0);
( 470733.0, 3752339.0,    499.9,    499.9,    2.0);         ( 470733.7, 3752320.5,
500.2,    500.2,    2.0);
( 470734.2, 3752291.0,    500.8,    500.8,    2.0);         ( 470733.2, 3752265.8,
500.8,    500.8,    2.0);
( 470732.9, 3752218.8,    501.2,    501.2,    2.0);         ( 470732.5, 3752182.1,
501.8,    501.8,    2.0);
( 470732.4, 3752145.3,    503.0,    503.0,    2.0);         ( 470692.4, 3752144.8,
502.5,    502.5,    2.0);
( 470670.1, 3752144.5,    502.1,    502.1,    2.0);         ( 470651.7, 3752144.3,
502.0,    502.0,    2.0);
( 470633.5, 3752144.1,    501.5,    501.5,    2.0);         ( 470615.5, 3752144.0,
500.9,    500.9,    2.0);
( 470596.0, 3752143.3,    500.2,    500.2,    2.0);         ( 470577.0, 3752143.5,
500.0,    500.0,    2.0);
( 470553.6, 3752143.5,    499.7,    499.7,    2.0);         ( 470528.6, 3752142.6,
498.8,    498.8,    2.0);
( 470508.0, 3752142.8,    497.6,    497.6,    2.0);         ( 470485.6, 3752142.5,
496.3,    496.3,    2.0);
( 470471.6, 3752131.6,    496.1,    496.1,    2.0);         ( 470471.6, 3752109.2,
497.3,    497.3,    2.0);
( 470471.3, 3752085.2,    498.1,    498.1,    2.0);         ( 470471.5, 3752037.7,
499.7,    499.7,    2.0);
( 470471.7, 3752013.0,    500.0,    500.0,    2.0);         ( 470470.9, 3751987.2,
500.1,    500.1,    2.0);
( 470470.9, 3751965.7,    500.1,    500.1,    2.0);         ( 470470.8, 3751944.4,
500.1,    500.1,    2.0);
( 470470.6, 3751924.3,    499.6,    499.6,    2.0);         ( 470470.5, 3751905.9,
499.0,    499.0,    2.0);
( 470470.9, 3751884.1,    499.1,    499.1,    2.0);         ( 470470.6, 3751864.0,
498.6,    498.6,    2.0);
( 470470.3, 3751844.0,    497.9,    497.9,    2.0);         ( 470470.2, 3751824.5,
496.6,    496.6,    2.0);
( 470470.3, 3751805.8,    495.7,    499.0,    2.0);         ( 470470.3, 3751788.0,
495.1,    502.0,    2.0);
( 470470.3, 3751761.2,    497.6,    497.6,    2.0);         ( 470471.0, 3751741.9,
499.5,    499.5,    2.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** DISCRETE CARTESIAN RECEPTORS ***
                         (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                       (METERS)

```
( 470470.0, 3751722.8,    501.4,    501.4,    2.0);         ( 470470.2, 3751703.4,
503.3,    503.3,    2.0);
( 470470.2, 3751683.8,    504.9,    504.9,    2.0);         ( 470470.3, 3751664.3,
506.2,    506.2,    2.0);
( 470470.3, 3751642.4,    507.6,    507.6,    2.0);         ( 470470.5, 3751621.8,
508.5,    508.5,    2.0);
( 470470.2, 3751599.8,    509.0,    509.0,    2.0);         ( 470470.6, 3751578.8,
509.1,    509.1,    2.0);
( 470469.6, 3751555.9,    507.6,    507.6,    2.0);         ( 470470.0, 3751512.5,
504.8,    512.0,    2.0);
```

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( 472036.9, 3751348.5,      536.6,      536.6,      2.0);        ( 472063.1, 3751349.3,
536.5,      536.5,      2.0);
( 472084.6, 3751348.3,      535.8,      535.8,      2.0);        ( 472104.9, 3751348.7,
534.6,      534.6,      2.0);
( 472127.3, 3751348.5,      533.0,      533.0,      2.0);        ( 472150.8, 3751349.7,
531.4,      531.4,      2.0);
( 472171.5, 3751349.5,      530.3,      530.3,      2.0);        ( 472194.1, 3751349.1,
528.2,      531.0,      2.0);
( 472222.6, 3751348.7,      525.4,      536.0,      2.0);        ( 472247.8, 3751349.5,
523.2,      536.0,      2.0);
( 472269.7, 3751349.1,      520.9,      536.0,      2.0);        ( 472290.4, 3751350.3,
520.7,      535.0,      2.0);
( 472313.6, 3751350.5,      520.9,      532.0,      2.0);        ( 472333.8, 3751351.3,
520.6,      532.0,      2.0);
```

PAGE 56
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 472354.8, 3751351.3,      518.5,      532.0,      2.0);        ( 472377.7, 3751351.1,
516.0,      532.0,      2.0);
( 472401.7, 3751351.1,      513.6,      533.0,      2.0);        ( 472425.5, 3751351.8,
511.8,      532.0,      2.0);
( 472445.7, 3751350.7,      511.1,      532.0,      2.0);        ( 472463.2, 3751350.9,
509.4,      532.0,      2.0);
( 472484.1, 3751350.9,      507.3,      532.0,      2.0);        ( 472503.9, 3751351.3,
506.3,      532.0,      2.0);
( 472523.8, 3751351.3,      506.2,      531.0,      2.0);        ( 472543.3, 3751351.3,
506.4,      506.4,      2.0);
( 472563.2, 3751352.2,      506.1,      506.1,      2.0);        ( 472582.6, 3751352.0,
505.8,      505.8,      2.0);
( 472601.3, 3751352.0,      505.3,      505.3,      2.0);        ( 472606.8, 3751367.3,
504.3,      504.3,      2.0);
( 472607.6, 3751396.4,      504.2,      504.2,      2.0);        ( 472608.5, 3751432.1,
505.0,      505.0,      2.0);
( 472608.9, 3751462.6,      504.4,      504.4,      2.0);        ( 472609.5, 3751497.1,
505.0,      505.0,      2.0);
( 472610.7, 3751553.8,      505.4,      505.4,      2.0);        ( 472666.0, 3751554.0,
501.3,      501.3,      2.0);
( 472690.4, 3751553.6,      499.8,      499.8,      2.0);        ( 472713.5, 3751554.3,
499.2,      499.2,      2.0);
( 472734.6, 3751554.0,      497.9,      497.9,      2.0);        ( 472759.5, 3751554.0,
496.2,      496.2,      2.0);
( 472781.8, 3751554.5,      494.9,      499.0,      2.0);        ( 472849.8, 3751556.1,
495.4,      495.4,      2.0);
( 472871.8, 3751556.1,      494.9,      494.9,      2.0);        ( 472895.2, 3751555.6,
494.2,      494.2,      2.0);
( 472922.6, 3751555.9,      493.8,      493.8,      2.0);        ( 473092.4, 3751802.3,
486.1,      486.1,      2.0);
( 473204.8, 3751856.8,      481.6,      481.6,      2.0);        ( 472991.2, 3752083.3,
484.1,      484.1,      2.0);
( 473295.1, 3752052.5,      478.7,      478.7,      2.0);        ( 473356.8, 3752050.3,
476.8,      476.8,      2.0);
( 473495.1, 3751996.6,      476.0,      476.0,      2.0);        ( 473486.5, 3751917.7,
475.8,      475.8,      2.0);
( 473392.6, 3752058.2,      475.9,      475.9,      2.0);        ( 473464.3, 3752082.6,
475.2,      475.2,      2.0);
( 473550.3, 3752087.6,      473.0,      473.0,      2.0);        ( 473584.7, 3752089.8,
473.0,      473.0,      2.0);
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( 472765.6, 3752474.1,     477.2,     495.0,      2.0);       ( 470432.2, 3750483.9,
  532.6,      532.6,       2.0);
( 469244.1, 3754182.8,     471.3,     485.0,      2.0);       ( 469596.8, 3750785.6,
  493.4,      493.4,       2.0);
( 470466.5, 3750530.3,     535.0,     535.0,      2.0);       ( 469319.3, 3749244.5,
  500.0,      500.0,       2.0);
( 469229.6, 3749502.2,     503.4,     503.4,      2.0);       ( 468465.4, 3749582.3,
  490.5,      490.5,       2.0);
( 471438.4, 3750129.8,     539.2,     539.2,      2.0);       ( 471657.5, 3749918.8,
  535.4,      535.4,       2.0);
( 471732.9, 3749916.5,     534.7,     534.7,      2.0);       ( 471710.3, 3750132.8,
  537.0,      537.0,       2.0);
( 471273.9, 3750119.8,     540.5,     540.5,
  2.0);
```

▚▚ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                                *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                                ***
                                              (METERS/SEC)

                                1.54,   3.09,   5.14,   8.23, 10.80,

▚▚ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                                *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL

First hour of profile data
YR MO DY HR HEIGHT F WDIR   WSPD AMB_TMP sigmaA sigmaW sigmaV
12 01 01 01   10.1 1   55.   2.93 288.2   99.0 -99.00 -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 59
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                    VOL3   , VOL4   , VOL5   ,
              VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,
              VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
              VOL19   , VOL20   , VOL21   ,
              VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
              VOL27   , VOL28   , . . .   ,

                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF CO   IN
                          MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - -
       472283.74   3752640.98   33.04370 (13112916)   472482.23
       3752398.04   18.94089 (14111116)
       472477.97   3752183.12   22.01806 (12121716)   472148.10
       3752531.53   61.30249 (13112916)
       472052.12   3752531.22   73.31747 (13112916)   471975.52
       3752531.22   55.62336 (13112916)
       471896.06   3752530.90   55.36674 (13112916)   471840.76
       3752529.94   54.76216 (13112916)
       471816.60   3752527.08   52.64842 (13112916)   471736.82
       3752557.91   58.58362 (13112916)
       471696.59   3752558.87   63.82305 (13112916)   471627.29
       3752556.22   62.31837 (13112916)
       471584.60   3752556.76   54.12415 (13112916)   471560.01
       3752556.22   49.75192 (13112916)
       471534.35   3752554.87   47.18219 (13112916)   471514.89
       3752554.87   46.77682 (13112916)
       471486.79   3752555.68   48.41713 (13112916)   471465.72
       3752555.41   49.77742 (13112916)
       471442.21   3752554.98   49.84233 (13112916)   471419.71
       3752552.46   49.27525 (13112916)
       471394.22   3752552.91   47.52711 (13112916)   471363.44
       3752552.46   45.62799 (13112916)
       471332.68   3752553.31   45.20061 (13112916)   471307.62
       3752552.94   46.76215 (13112916)
       471284.05   3752552.70   49.36082 (13112916)   471261.98
       3752552.70   51.73158 (13112916)
       471241.90   3752552.70   53.18031 (13112916)   471223.15
       3752552.86   53.69143 (13112916)
       471205.90   3752552.86   53.41420 (13112916)   471173.21
       3752552.37   50.72653 (13112916)
       471135.70   3752552.53   42.31541 (13112916)   471093.22
       3752551.54   41.05763 (14021809)
       471059.37   3752551.70   42.03274 (14021809)   471020.54

```
                      3752551.20        37.85194  (14021809)
      470981.05    3752563.65        29.08804  (14021809)           470980.39
                      3752552.20        29.79693  (14021809)
      470980.06    3752535.61        30.89791  (14021809)           470979.89
                      3752517.19        32.07964  (14021809)
      470980.06    3752499.76        34.28937  (13021809)           470980.22
                      3752479.85        37.79819  (16120116)
      470980.39    3752459.44        41.16242  (13112716)           470980.22
                      3752433.22        46.98096  (13112716)
      470980.06    3752404.02        49.33622  (15021709)           470927.12
                      3752402.69        33.23021  (13112716)
      470907.87    3752402.69        30.03482  (13112716)           470887.30
                      3752402.69        27.23145  (13112716)
      470869.71    3752402.03        25.32674  (13112716)           470849.63
                      3752401.86        23.48761  (13112716)
      470829.39    3752402.19        21.90731  (13112716)           470811.63
                      3752402.19        20.69546  (13112716)
      470791.55    3752402.53        19.48142  (13112716)           470773.63
                      3752401.86        18.51655  (13112716)
      470749.24    3752402.19        17.34835  (13112716)           470727.72
                      3752391.74        16.47403  (13112716)
      470733.04    3752338.97        16.59785  (13112716)           470733.70
                      3752320.55        16.54136  (13112716)
      470734.20    3752291.01        16.43206  (13112716)           470733.20
                      3752265.78        16.32024  (15021709)
      470732.87    3752218.81        16.53731  (15021709)           470732.54
                      3752182.14        16.63574  (15021709)
      470732.37    3752145.29        16.76119  (15021709)           470692.38
                      3752144.80        15.44466  (15021709)
      470670.14    3752144.46        14.82091  (15021709)           470651.72
                      3752144.30        14.34992  (15021709)
      470633.46    3752144.13        13.92226  (15021709)           470615.54
                      3752143.97        13.53392  (15021709)
      470595.95    3752143.30        13.14324  (15021709)           470577.03
                      3752143.47        12.78765  (15021709)
      470553.63    3752143.47        12.38184  (15021709)           470528.57
                      3752142.64        11.98910  (15021709)
      470507.99    3752142.80        11.68641  (15021709)           470485.59
                      3752142.47        11.38137  (15021709)
      470471.60    3752131.63        11.26608  (15021709)           470471.60
                      3752109.21        11.40719  (15021709)
      470471.32    3752085.22        11.56603  (15021709)           470471.46
                      3752037.68        11.93885  (15021709)
      470471.74    3752013.00        12.16361  (15021709)           470470.89
                      3751987.18        12.39808  (15021709)
      470470.89    3751965.74        12.60762  (15021709)           470470.75
                      3751944.44        12.81008  (15021709)
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 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL       ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
              VOL11       , VOL12       , VOL13       ,
              VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
              VOL19       , VOL20       , VOL21       ,
              VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
              VOL27       , VOL28       , . . .       ,
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                        ** CONC OF CO   IN
                        MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
470470.61	3751924.27	12.99066	(15021709)	470470.47	3751905.93	13.13829	(15021709)
470470.89	3751884.06	13.29678	(15021709)	470470.61	3751864.03	13.39708	(15021709)
470470.33	3751844.00	13.46159	(15021709)	470470.19	3751824.53	13.49038	(15021709)
470470.33	3751805.77	13.49057	(15021709)	470470.33	3751788.00	13.46089	(15021709)
470470.33	3751761.19	13.37910	(15021709)	470471.03	3751741.87	13.30420	(15021709)
470470.05	3751722.82	13.18088	(15021709)	470470.19	3751703.36	13.06057	(15021709)
470470.19	3751683.75	12.92536	(15021709)	470470.33	3751664.28	12.85952	(14123016)
470470.33	3751642.41	12.94863	(14123016)	470470.47	3751621.82	13.00206	(14123016)
470470.19	3751599.81	13.02095	(14123016)	470470.61	3751578.79	13.02129	(14123016)
470469.62	3751555.94	12.93403	(14123016)	470470.05	3751512.49	12.72655	(14123016)
470468.64	3751414.59	11.96697	(14123016)	470469.76	3751385.25	11.94607	(14123016)
470468.65	3751358.95	11.71203	(14123016)	470462.93	3751325.56	11.32210	(12121315)
470461.98	3751310.62	11.28658	(12121315)	470462.61	3751296.63	11.28027	(12121315)
470462.61	3751283.28	11.26227	(12121315)	470462.61	3751269.92	11.24209	(12121315)
470462.93	3751254.35	11.21837	(12121315)	470461.98	3751240.67	11.16889	(12121315)
470463.25	3751227.64	11.14721	(12121315)	470756.39	3751290.59	18.40461	(12121315)
470797.72	3751268.33	19.41732	(12121315)	470891.19	3751226.38	22.49068	(12012316)
470940.78	3751191.82	23.58784	(14020616)	471000.61	3750923.63	21.27931	(12012316)
471029.26	3750923.63	21.54824	(12012316)	471056.29	3750923.90	21.50530	(12012316)
471077.91	3750924.44	21.27522	(12012316)	471097.64	3750924.44	20.87305	(12012316)
471118.18	3750924.98	20.92738	(16112816)	471138.99	3750927.42	22.83308	(16112816)
471160.07	3750928.77	24.96930	(16112816)	471181.15	3750931.47	28.41577	(12121316)
471201.69	3750930.93	32.86817	(12121316)	471222.50	3750931.47	32.29028	(12121316)
471244.13	3750931.20	34.48582	(16112816)	471264.40	3750931.74	36.39699	(16112816)
471284.40	3750931.74	37.69168	(16112816)	471305.75	3750931.74	38.34589	(16112816)
471324.67	3750930.93	38.12954	(16112816)	471343.05	3750930.12	37.33757	(16112816)
471363.86	3750929.04	35.91704	(16112816)	471381.96	3750928.77	34.47320	(16112816)
471400.88	3750928.23	32.89967	(16112816)	471421.15	3750927.96	31.40314	(16112816)
471440.59	3750928.11	30.36220	(16112816)	471461.83			

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         3750927.45         29.70067  (16112816)
471479.76   3750927.95         29.55541  (16112816)                471499.68
         3750927.62         29.65048  (16112816)
471519.26   3750928.78         29.95535  (16112816)                471537.02
         3750929.61         30.15233  (16112816)
471556.77   3750930.94         30.23386  (16112816)                471580.68
         3750934.09         30.04953  (16112816)
471624.00   3750940.23         30.11290  (15122816)                471795.90
         3750950.11         23.33216  (15122816)
471796.29   3750967.88         23.56592  (15122816)                471796.69
         3750987.22         23.67946  (15122816)
471797.47   3751006.75         23.51844  (15122816)                471796.69
         3751025.30         23.80787  (15122816)
471795.90   3751046.40         23.58151  (15122816)                471796.69
         3751072.96         23.53870  (16112816)
471797.47   3751143.85         27.33701  (12121716)                471833.01
         3751143.85         27.55220  (12121716)
471867.38   3751144.05         27.45794  (12121716)                471891.02
         3751144.44         27.20868  (12121716)
471916.60   3751144.24         26.66792  (12121716)                471939.45
         3751144.24         26.11954  (12121716)
471963.08   3751144.44         25.29707  (12121716)                471984.17
         3751144.05         24.76860  (12121716)
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■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                PAGE 61
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF CO   IN
                         MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
    471999.02   3751163.38   26.08806 (12121716)   472000.19
        3751199.12   28.75316 (12121716)
    471999.80   3751230.56   30.19698 (12121716)   472000.38
        3751251.46   30.81354 (12121716)
    472000.19   3751281.15   31.66902 (12121716)   472001.95
        3751347.94   34.59441 (12121716)
    472036.90   3751348.52   32.82861 (12121716)   472063.07
        3751349.31   31.62665 (12121716)
    472084.56   3751348.33   30.68198 (12121716)   472104.87
        3751348.72   29.91370 (12121716)
    472127.33   3751348.52   29.06103 (12121716)   472150.76
        3751349.70   28.26403 (12121716)
    472171.47   3751349.50   27.50386 (12121716)   472194.12
        3751349.11   26.67250 (12121716)
    472222.63   3751348.72   25.77014 (12121716)   472247.83

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            3751349.50          25.01488   (12121716)
 472269.70   3751349.11          24.36172   (12121716)                 472290.40
            3751350.28          23.83093   (12121716)
 472313.64   3751350.48          23.22851   (12121716)                 472333.76
            3751351.26          22.74168   (12121716)
 472354.85   3751351.26          22.20362   (12121716)                 472377.70
            3751351.06          21.62228   (12121716)
 472401.72   3751351.06          21.04308   (12121716)                 472425.55
            3751351.84          20.52327   (12121716)
 472445.67   3751350.67          20.07818   (12121716)                 472463.24
            3751350.87          19.70700   (12121716)
 472484.14   3751350.87          19.27007   (12121716)                 472503.87
            3751351.26          18.89892   (12121716)
 472523.79   3751351.26          18.55162   (12121716)                 472543.32
            3751351.26          18.22734   (12121716)
 472563.24   3751352.24          17.91315   (12121716)                 472582.57
            3751352.04          17.60031   (12121716)
 472601.32   3751352.04          17.30994   (12121716)                 472606.79
            3751367.27          17.44404   (12121716)
 472607.57   3751396.37          17.89362   (12121716)                 472608.55
            3751432.11          18.53014   (12121716)
 472608.94   3751462.58          19.16899   (12121716)                 472609.52
            3751497.15          20.16304   (12121716)
 472610.70   3751553.78          22.76471   (12121716)                 472665.97
            3751553.98          22.38259   (12121716)
 472690.38   3751553.59          22.22460   (12121716)                 472713.50
            3751554.27          22.16941   (12121716)
 472734.64   3751554.04          22.04031   (12121716)                 472759.46
            3751554.04          21.90270   (12121716)
 472781.75   3751554.50          21.82078   (12121716)                 472849.76
            3751556.11          21.70775   (12121716)
 472871.82   3751556.11          21.59276   (12121716)                 472895.25
            3751555.65          21.42355   (12121716)
 472922.60   3751555.88          21.27236   (12121716)                 473092.41
            3751802.31          38.20996   (12121716)
 473204.80   3751856.81          26.15546   (12121716)                 472991.21
            3752083.31          27.83956   (13112916)
 473295.12   3752052.49          13.78133   (14111116)                 473356.76
            3752050.34          11.76651   (14111116)
 473495.10   3751996.58          11.67678   (13112016)                 473486.50
            3751917.74          14.16725   (13112016)
 473392.60   3752058.22          10.91684   (14111116)                 473464.28
            3752082.59           9.63725   (14111116)
 473550.29   3752087.61           8.45941   (13121916)                 473584.69
            3752089.76           8.19249   (13121916)
 472765.59   3752474.09          11.75051   (14111116)                 470432.16
            3750483.93          19.32773   (12121316)
 469244.06   3754182.82           4.05250   (14020709)                 469596.75
            3750785.65           6.11882   (14101709)
 470466.55   3750530.27          21.38075   (12121316)                 469319.29
            3749244.53           4.89188   (14121709)
 469229.64   3749502.19           4.67552   (15122209)                 468465.38
            3749582.33           4.78488   (12011709)
 471438.37   3750129.76          14.24638   (15122816)                 471657.54
            3749918.78          10.55613   (15122816)
 471732.91   3749916.52           9.69444   (15122816)                 471710.30
            3750132.80          11.75367   (15122816)
 471273.89   3750119.77          12.14811
            (15122816)
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🏚 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                  PAGE   62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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                    *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                    SOURCE GROUP:  ALL      ***
                         INCLUDING SOURCE(S):    VOL1        , VOL2         ,
                         VOL3       , VOL4          , VOL5        ,
              VOL6       , VOL7        , VOL8       , VOL9       , VOL10       ,
              VOL11      , VOL12       , VOL13       ,
              VOL14      , VOL15       , VOL16       , VOL17      , VOL18       ,
              VOL19      , VOL20       , VOL21       ,
              VOL22      , VOL23       , VOL24       , VOL25      , VOL26       ,
              VOL27      , VOL28       ,  . . .      ,

                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                    ** CONC OF CO        IN
                    MICROGRAMS/M**3                          **

   X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)         X-COORD (M)  Y-COORD
   (M)       CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
     472283.74   3752640.98      7.42500   (13100916)         472482.23
     3752398.04      7.28953   (13112116)
     472477.97   3752183.12      9.57621   (12121716)         472148.10
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     472052.12   3752531.22     14.45102   (13100916)         471975.52
     3752531.22     13.88937   (13100916)
     471896.06   3752530.90     14.02851   (13100916)         471840.76
     3752529.94     13.90116   (13100916)
     471816.60   3752527.08     13.97851   (13121916)         471736.82
     3752557.91     13.78644   (13100916)
     471696.59   3752558.87     13.95924   (13100916)         471627.29
     3752556.22     14.66372   (13121916)
     471584.60   3752556.76     15.13424   (13121916)         471560.01
     3752556.22     15.13128   (13121916)
     471534.35   3752554.87     15.15848   (16010616)         471514.89
     3752554.87     15.13280   (16010616)
     471486.79   3752555.68     15.11826   (16010616)         471465.72
     3752555.41     14.96607   (16010616)
     471442.21   3752554.98     14.56493   (16010616)         471419.71
     3752552.46     14.43511   (16010616)
     471394.22   3752552.91     14.42216   (16010616)         471363.44
     3752552.46     14.67971   (16010616)
     471332.68   3752553.31     14.84005   (16010616)         471307.62
     3752552.94     14.88047   (16010616)
     471284.05   3752552.70     14.76226   (16010616)         471261.98
     3752552.70     14.63858   (16010616)
     471241.90   3752552.70     14.59014   (16010616)         471223.15
     3752552.86     14.63295   (16010616)
     471205.90   3752552.86     14.75756   (16010616)         471173.21
     3752552.37     15.22752   (16010616)
     471135.70   3752552.53     15.97205   (16010616)         471093.22
     3752551.54     16.98707   (16010616)
     471059.37   3752551.70     17.04672   (16010616)         471020.54
     3752551.20     16.10950   (16010616)
     470981.05   3752563.65     13.88567   (16010516)         470980.39
     3752552.20     14.71744   (16010516)
     470980.06   3752535.61     16.00334   (16010516)         470979.89
     3752517.19     17.87295   (14121216)
     470980.06   3752499.76     19.98307   (14121216)         470980.22
     3752479.85     22.28237   (14121216)
     470980.39   3752459.44     24.17616   (14121216)         470980.22
     3752433.22     24.91965   (14121216)
     470980.06   3752404.02     25.98112   (12121316)         470927.12
     3752402.69     15.64933   (14121216)
     470907.87   3752402.69     14.03933   (14121216)         470887.30
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   470869.71   3752402.03         11.78485   (14121216)              470849.63
      3752401.86         10.93061   (14121216)
   470829.39   3752402.19         10.19695   (14121216)              470811.63
      3752402.19          9.63474   (14121216)
   470791.55   3752402.53          9.07122   (14121216)              470773.63
      3752401.86          8.62359   (14121216)
   470749.24   3752402.19          8.08416   (14121216)              470727.72
      3752391.74          7.69872   (14121216)
   470733.04   3752338.97          7.97127   (14121216)              470733.70
      3752320.55          8.04030   (14121216)
   470734.20   3752291.01          8.14254   (14121216)              470733.20
      3752265.78          8.19935   (14121216)
   470732.87   3752218.81          8.45028   (12121316)              470732.54
      3752182.14          8.76959   (12121316)
   470732.37   3752145.29          9.10980   (12121316)              470692.38
      3752144.80          8.16929   (12121316)
   470670.14   3752144.46          7.76651   (14121216)              470651.72
      3752144.30          7.46510   (14121216)
   470633.46   3752144.13          7.16795   (14121216)              470615.54
      3752143.97          6.88476   (14121216)
   470595.95   3752143.30          6.58640   (14121216)              470577.03
      3752143.47          6.31143   (14121216)
   470553.63   3752143.47          5.98631   (14121216)              470528.57
      3752142.64          5.67422   (12121316)
   470507.99   3752142.80          5.48495   (15112716)              470485.59
      3752142.47          5.29432   (15112716)
   470471.60   3752131.63          5.22614   (15112716)              470471.60
      3752109.21          5.32385   (15112716)
   470471.32   3752085.22          5.42938   (15112716)              470471.46
      3752037.68          5.65968   (12121316)
   470471.74   3752013.00          5.77755   (12121316)              470470.89
      3751987.18          5.88492   (15112716)
   470470.89   3751965.74          5.97669   (15112716)              470470.75
      3751944.44          6.05792   (15112716)
```

                  PAGE 63
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                  VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                  ** CONC OF CO   IN
                                  MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - - - -
   470470.61   3751924.27   6.12349   (15112716)   470470.47
      3751905.93   6.17233   (15112716)
   470470.89   3751884.06   6.22750   (15112716)   470470.61

	3751864.03	6.25633	(15112716)	
470470.33	3751844.00	6.28742	(12121316)	470470.19
	3751824.53	6.31819	(12121316)	
470470.33	3751805.77	6.34758	(12121316)	470470.33
	3751788.00	6.36914	(12121316)	
470470.33	3751761.19	6.40915	(12121316)	470471.03
	3751741.87	6.43699	(12121316)	
470470.05	3751722.82	6.42951	(12121316)	470470.19
	3751703.36	6.42333	(12121316)	
470470.19	3751683.75	6.40120	(12121316)	470470.33
	3751664.28	6.37156	(12121316)	
470470.33	3751642.41	6.32245	(12121316)	470470.47
	3751621.82	6.26572	(12121316)	
470470.19	3751599.81	6.18791	(12121316)	470470.61
	3751578.79	6.11507	(12121316)	
470469.62	3751555.94	6.06588	(16122916)	470470.05
	3751512.49	6.04175	(16122916)	
470468.64	3751414.59	5.95229	(14123016)	470469.76
	3751385.25	5.98751	(14123016)	
470468.65	3751358.95	5.95612	(14123016)	470462.93
	3751325.56	5.84748	(14123016)	
470461.98	3751310.62	5.81472	(14123016)	470462.61
	3751296.63	5.79897	(14123016)	
470462.61	3751283.28	5.77544	(14123016)	470462.61
	3751269.92	5.75014	(14123016)	
470462.93	3751254.35	5.74227	(16122016)	470461.98
	3751240.67	5.72286	(16122016)	
470463.25	3751227.64	5.71777	(16122016)	470756.39
	3751290.59	10.38097	(14123016)	
470797.72	3751268.33	11.01434	(14123016)	470891.19
	3751226.38	12.47752	(14123016)	
470940.78	3751191.82	13.14542	(14123016)	471000.61
	3750923.63	8.67722	(13112216)	
471029.26	3750923.63	9.11985	(13112216)	471056.29
	3750923.90	9.50028	(13112216)	
471077.91	3750924.44	9.74827	(13112216)	471097.64
	3750924.44	9.89521	(13112216)	
471118.18	3750924.98	10.02236	(13112216)	471138.99
	3750927.42	10.12542	(13112216)	
471160.07	3750928.77	10.08116	(13112216)	471181.15
	3750931.47	10.07676	(13112216)	
471201.69	3750930.93	10.01900	(15121516)	471222.50
	3750931.47	10.01148	(15121516)	
471244.13	3750931.20	9.86726	(15121516)	471264.40
	3750931.74	9.67012	(15121516)	
471284.40	3750931.74	9.42987	(12012416)	471305.75
	3750931.74	9.26854	(12012416)	
471324.67	3750930.93	9.06274	(14110316)	471343.05
	3750930.12	9.00685	(14110316)	
471363.86	3750929.04	8.88895	(14110316)	471381.96
	3750928.77	8.76970	(14110316)	
471400.88	3750928.23	8.62015	(14110316)	471421.15
	3750927.96	8.45046	(14110316)	
471440.59	3750928.11	8.29220	(14110316)	471461.83
	3750927.45	8.09838	(14110316)	
471479.76	3750927.95	7.94043	(14110316)	471499.68
	3750927.62	7.73555	(14110316)	
471519.26	3750928.78	7.54403	(14110316)	471537.02
	3750929.61	7.60638	(15122816)	
471556.77	3750930.94	7.73201	(15122816)	471580.68
	3750934.09	7.95199	(15122816)	
471624.00	3750940.23	8.03304	(15122816)	471795.90
	3750950.11	7.02981	(15122816)	
471796.29	3750967.88	7.28324	(15122816)	471796.69
	3750987.22	7.57220	(15122816)	
471797.47	3751006.75	7.86192	(15122816)	471796.69

```
      3751025.30          8.18081   (15122816)
471795.90   3751046.40         8.49482   (15122816)              471796.69
      3751072.96          8.87325   (15122816)
471797.47   3751143.85        10.16613   (15122816)              471833.01
      3751143.85          9.38748   (15122816)
471867.38   3751144.05         8.59489   (15122816)              471891.02
      3751144.44          8.32357   (15122816)
471916.60   3751144.24         8.07937   (15122816)              471939.45
      3751144.24          7.73273   (15122816)
471963.08   3751144.44         7.46631   (15122816)              471984.17
      3751144.05          7.16123   (15122816)
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:42:13

                        PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

```
                              *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  ALL       ***
                                    INCLUDING SOURCE(S):     VOL1         , VOL2        ,
                                       VOL3        , VOL4        , VOL5        ,
                     VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                     VOL11       , VOL12       , VOL13       ,
                     VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                     VOL19       , VOL20       , VOL21       ,
                     VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                     VOL27       , VOL28       , . . .       ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                     ** CONC OF CO       IN
                     MICROGRAMS/M**3                                   **


   X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
     (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
     471999.02   3751163.38       7.25720   (15122816)              472000.19
      3751199.12          7.65440   (15122816)
     471999.80   3751230.56       8.01453   (15122816)              472000.38
      3751251.46          8.37126   (13112016)
     472000.19   3751281.15       8.98949   (13112016)              472001.95
      3751347.94         10.42228   (13112016)
     472036.90   3751348.52       9.72168   (13112016)              472063.07
      3751349.31          9.25662   (13112016)
     472084.56   3751348.33       8.89887   (13112016)              472104.87
      3751348.72          8.62546   (13112016)
     472127.33   3751348.52       8.34127   (13112016)              472150.76
      3751349.70          8.08126   (13112016)
     472171.47   3751349.50       7.84086   (13112016)              472194.12
      3751349.11          7.61138   (13112016)
     472222.63   3751348.72       7.34267   (13112016)              472247.83
      3751349.50          7.13298   (13112016)
     472269.70   3751349.11       6.95203   (13112016)              472290.40
      3751350.28          6.79432   (13112016)
     472313.64   3751350.48       6.61449   (13112016)              472333.76
      3751351.26          6.47821   (13112016)
     472354.85   3751351.26       6.34837   (13112016)              472377.70
      3751351.06          6.21551   (13112016)
     472401.72   3751351.06       6.08467   (13112016)              472425.55
      3751351.84          5.96534   (13112016)
     472445.67   3751350.67       5.84791   (13112016)              472463.24
      3751350.87          5.76637   (13112016)
     472484.14   3751350.87       5.66627   (13112016)              472503.87
```

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        3751351.26        5.57405  (13112016)
472523.79  3751351.26        5.47722  (13112016)              472543.32
        3751351.26        5.38360  (13112016)
472563.24  3751352.24        5.29996  (13112016)              472582.57
        3751352.04        5.21192  (13112016)
472601.32  3751352.04        5.13022  (13112016)              472606.79
        3751367.27        5.22570  (13112016)
472607.57  3751396.37        5.45388  (13112016)              472608.55
        3751432.11        5.75557  (13112016)
472608.94  3751462.58        6.05615  (13112016)              472609.52
        3751497.15        6.43740  (13112016)
472610.70  3751553.78        7.24342  (13112016)              472665.97
        3751553.98        6.95708  (13112016)
472690.38  3751553.59        6.82525  (13112016)              472713.50
        3751554.27        6.70192  (13112016)
472734.64  3751554.04        6.58623  (13112016)              472759.46
        3751554.04        6.45457  (13112016)
472781.75  3751554.50        6.33732  (13112016)              472849.76
        3751556.11        6.08109  (12113016)
472871.82  3751556.11        6.00714  (12113016)              472895.25
        3751555.65        5.92389  (12113016)
472922.60  3751555.88        5.83838  (12113016)              473092.41
        3751802.31       10.65195  (12042316)
473204.80  3751856.81        9.02378  (12042316)              472991.21
        3752083.31        9.44329  (14111116)
473295.12  3752052.49        5.93102  (15042416)              473356.76
        3752050.34        5.39518  (15042416)
473495.10  3751996.58        4.61435  (12050116)              473486.50
        3751917.74        4.98344  (12050116)
473392.60  3752058.22        5.05498  (15042416)              473464.28
        3752082.59        4.44222  (15042416)
473550.29  3752087.61        3.98906  (15042416)              473584.69
        3752089.76        3.83166  (15042416)
472765.59  3752474.09        4.88566  (13112116)              470432.16
        3750483.93        3.99329  (12121316)
469244.06  3754182.82        0.95144  (16010516)              469596.75
        3750785.65        3.46713  (13012516)
470466.55  3750530.27        4.32682  (12121316)              469319.29
        3749244.53        1.35435  (13012516)
469229.64  3749502.19        1.85576  (13012516)              468465.38
        3749582.33        2.24732  (13012516)
471438.37  3750129.76        2.45247  (12012416)              471657.54
        3749918.78        1.85286  (15122816)
471732.91  3749916.52        1.78985  (15122816)              471710.30
        3750132.80        2.23599  (15122816)
471273.89  3750119.77        2.75328
        (12012416)
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                       *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

                            ** CONC OF CO   IN
                              MICROGRAMS/M**3   **

                                          DATE
                                                                            NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID

- -
- - - - - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   73.31747 ON 13112916: AT (472052.12, 3752531.22,
499.36,   512.00,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 66
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

                              ** CONC OF CO   IN
                              MICROGRAMS/M**3   **

                                          DATE
                                                                      NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   25.98112 ON 12121316: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:42:13

                 PAGE 67
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

    ******** FATAL ERROR MESSAGES ********
              *** NONE ***

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons NO2 Mit\14064
Cons NO2 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons NO2 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
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        LOCATION VOL29         VOLUME      471577.888  3751616.698      529.000
        LOCATION VOL30         VOLUME      471724.580  3751620.663      533.750
        LOCATION VOL31         VOLUME      471941.049  3751865.677      534.600
        LOCATION VOL32         VOLUME      471795.151  3751684.890      537.260
        LOCATION VOL33         VOLUME      471577.888  3751434.325      531.060
        LOCATION VOL34         VOLUME      471389.965  3751431.946      537.260
        LOCATION VOL35         VOLUME      471202.041  3751467.628      526.830
        LOCATION VOL36         VOLUME      471065.657  3751504.895      521.960
        LOCATION VOL37         VOLUME      471656.388  3751514.411      529.480
        LOCATION VOL38         VOLUME      471522.384  3751324.108      529.000
        LOCATION VOL39         VOLUME      471332.874  3751322.522      529.530
        LOCATION VOL40         VOLUME      471282.920  3751321.729      528.170
        LOCATION VOL41         VOLUME      471233.758  3751388.335      528.470
        LOCATION VOL42         VOLUME      472135.642  3751845.064      525.790
        LOCATION VOL43         VOLUME      472323.361  3751843.460      510.520
        LOCATION VOL44         VOLUME      472512.544  3751852.284      501.450
        LOCATION VOL45         VOLUME      472698.022  3751875.469      491.390
        LOCATION VOL46         VOLUME      472880.772  3751928.657      487.900
        LOCATION VOL47         VOLUME      472608.011  3752044.580      498.520
        LOCATION VOL48         VOLUME      471084.506  3752407.221      506.810
**  Source Parameters **
        SRCPARAM VOL1          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL2          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL3          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL4          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL5          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL6          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL7          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL8          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL9          0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL10         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL11         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL12         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL13         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL14         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL15         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL16         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL17         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL18         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL19         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL20         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL21         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL22         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL23         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL24         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL25         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL26         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL27         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL28         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL29         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL30         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL31         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL32         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL33         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL34         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL35         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL36         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL37         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL38         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL39         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL40         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL41         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL42         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL43         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL44         0.0153002114    5.000     43.702    1.400
        SRCPARAM VOL45         0.0153002114    5.000     43.702    1.400
```

```
    SRCPARAM VOL46           0.0153002114      5.000     43.702      1.400
    SRCPARAM VOL47           0.0153002114      5.000     43.702      1.400
    SRCPARAM VOL48           0.0153002114      5.000     43.702      1.400
    URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL4           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    SMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
      EMISFACT VOL48        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "14064 Cons NO2 Mit.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 CONS NO2 MIT.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Cons NO2 Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
                *** NONE ***


     ********   WARNING MESSAGES   ********
 ME W186    881       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187    881       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 *********************************
 *** SETUP Finishes Successfully ***
 *********************************
```

```
**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Cons NO2
 Mit.err
**File for Summary of Results:   14064 Cons NO2
 Mit.sum
```

[PP] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
***   ***   10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

- -

| VOL1 | 0 | 0.15300E-01 | 471175.5 | 3752366.4 | 510.2 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL2 | 0 | 0.15300E-01 | 471362.2 | 3752367.6 | 512.4 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL3 | 0 | 0.15300E-01 | 471550.1 | 3752368.4 | 518.9 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL4 | 0 | 0.15300E-01 | 471609.6 | 3752371.6 | 516.0 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL5 | 0 | 0.15300E-01 | 471796.7 | 3752342.2 | 515.1 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL6 | 0 | 0.15300E-01 | 471984.7 | 3752344.6 | 513.6 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL7 | 0 | 0.15300E-01 | 472003.7 | 3752347.0 | 512.1 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL8 | 0 | 0.15300E-01 | 472002.9 | 3752159.1 | 521.6 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL9 | 0 | 0.15300E-01 | 471814.2 | 3752156.7 | 520.7 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL10 | 0 | 0.15300E-01 | 471628.6 | 3752181.3 | 526.8 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL11 | 0 | 0.15300E-01 | 471440.7 | 3752181.3 | 527.4 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL12 | 0 | 0.15300E-01 | 471253.6 | 3752180.5 | 518.9 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL13 | 0 | 0.15300E-01 | 471092.6 | 3752217.7 | 509.6 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL14 | 0 | 0.15300E-01 | 471074.4 | 3752029.0 | 516.1 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL15 | 0 | 0.15300E-01 | 471263.9 | 3751992.5 | 521.1 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL16 | 0 | 0.15300E-01 | 471452.6 | 3751994.1 | 530.0 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL17 | 0 | 0.15300E-01 | 471640.5 | 3751992.5 | 534.9 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL18 | 0 | 0.15300E-01 | 471827.7 | 3751968.0 | 533.0 | 5.00 | 43.70 | 1.40 |
| YES   HRDOW |
| VOL19 | 0 | 0.15300E-01 | 472002.9 | 3751970.3 | 527.9 | 5.00 | 43.70 | 1.40 |

```
YES    HRDOW
VOL20          0   0.15300E-01  471845.1 3751780.0   538.8    5.00   43.70    1.40
YES    HRDOW
VOL21          0   0.15300E-01  471657.2 3751803.8   536.0    5.00   43.70    1.40
YES    HRDOW
VOL22          0   0.15300E-01  471468.5 3751806.2   528.3    5.00   43.70    1.40
YES    HRDOW
VOL23          0   0.15300E-01  471280.5 3751807.0   525.0    5.00   43.70    1.40
YES    HRDOW
VOL24          0   0.15300E-01  471093.4 3751841.9   515.6    5.00   43.70    1.40
YES    HRDOW
VOL25          0   0.15300E-01  470978.4 3751841.9   518.1    5.00   43.70    1.40
YES    HRDOW
VOL26          0   0.15300E-01  471014.1 3751654.8   520.4    5.00   43.70    1.40
YES    HRDOW
VOL27          0   0.15300E-01  471201.2 3751654.8   525.1    5.00   43.70    1.40
YES    HRDOW
VOL28          0   0.15300E-01  471389.2 3751619.1   534.9    5.00   43.70    1.40
YES    HRDOW
VOL29          0   0.15300E-01  471577.9 3751616.7   529.0    5.00   43.70    1.40
YES    HRDOW
VOL30          0   0.15300E-01  471724.6 3751620.7   533.8    5.00   43.70    1.40
YES    HRDOW
VOL31          0   0.15300E-01  471941.0 3751865.7   534.6    5.00   43.70    1.40
YES    HRDOW
VOL32          0   0.15300E-01  471795.2 3751684.9   537.3    5.00   43.70    1.40
YES    HRDOW
VOL33          0   0.15300E-01  471577.9 3751434.3   531.1    5.00   43.70    1.40
YES    HRDOW
VOL34          0   0.15300E-01  471390.0 3751431.9   537.3    5.00   43.70    1.40
YES    HRDOW
VOL35          0   0.15300E-01  471202.0 3751467.6   526.8    5.00   43.70    1.40
YES    HRDOW
VOL36          0   0.15300E-01  471065.7 3751504.9   522.0    5.00   43.70    1.40
YES    HRDOW
VOL37          0   0.15300E-01  471656.4 3751514.4   529.5    5.00   43.70    1.40
YES    HRDOW
VOL38          0   0.15300E-01  471522.4 3751324.1   529.0    5.00   43.70    1.40
YES    HRDOW
VOL39          0   0.15300E-01  471332.9 3751322.5   529.5    5.00   43.70    1.40
YES    HRDOW
VOL40          0   0.15300E-01  471282.9 3751321.7   528.2    5.00   43.70    1.40
YES    HRDOW
```

▯▯ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
***   ***   10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

```
             NUMBER EMISSION RATE                      BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)      X        Y       ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.                 (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)           BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


VOL41          0   0.15300E-01  471233.8 3751388.3   528.5    5.00   43.70    1.40
YES    HRDOW
VOL42          0   0.15300E-01  472135.6 3751845.1   525.8    5.00   43.70    1.40
```

```
YES    HRDOW
VOL43          0   0.15300E-01   472323.4 3751843.5   510.5    5.00    43.70    1.40
YES    HRDOW
VOL44          0   0.15300E-01   472512.5 3751852.3   501.4    5.00    43.70    1.40
YES    HRDOW
VOL45          0   0.15300E-01   472698.0 3751875.5   491.4    5.00    43.70    1.40
YES    HRDOW
VOL46          0   0.15300E-01   472880.8 3751928.7   487.9    5.00    43.70    1.40
YES    HRDOW
VOL47          0   0.15300E-01   472608.0 3752044.6   498.5    5.00    43.70    1.40
YES    HRDOW
VOL48          0   0.15300E-01   471084.5 3752407.2   506.8    5.00    43.70    1.40
YES    HRDOW
```

▞▚ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
             VOL39   , VOL40   ,

             VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
             VOL47   , VOL48   ,

▞▚ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP   SOURCE IDs
 --------   ---------   ----------

            2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   ,
 VOL8   ,

            VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
            VOL15   , VOL16   ,

```
        VOL17        , VOL18        , VOL19        , VOL20        , VOL21        , VOL22        ,
        VOL23        , VOL24        ,

        VOL25        , VOL26        , VOL27        , VOL28        , VOL29        , VOL30        ,
        VOL31        , VOL32        ,

        VOL33        , VOL34        , VOL35        , VOL36        , VOL37        , VOL38        ,
        VOL39        , VOL40        ,

        VOL41        , VOL42        , VOL43        , VOL44        , VOL45        , VOL46        ,
        VOL47        , VOL48        ,
```

```
                  PAGE   6
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  PAGE   7
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL2        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL3   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                         (HRDOW) *

 SOURCE ID = VOL4        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:45:47


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL5        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL6   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▮▮ *** AERMOD – VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET – VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL9   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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               PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = VOL10       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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               PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = VOL11       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

- -
- - - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

                  PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL13       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL14       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                    PAGE 21
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                    PAGE 22
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL17       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                    PAGE 23
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL18       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 24
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 25
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                  PAGE 26
 *** MODELOPTs: RegDFAULT CONC   ELEV   FLGPOL   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***

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                  PAGE   27
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL22        ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
   ***                                                    ***        10:45:47


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL23        ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

SOURCE ID = VOL28   ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/26/23
*** AERMET - VERSION 16216 ***
*** *** 10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL31 ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/26/23
*** AERMET - VERSION 16216 ***
*** *** 10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL32 ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL34   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***      10:45:47
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                   PAGE  40
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL35       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***      10:45:47
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL36       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
    SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🖩 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL37   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🖩 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

SOURCE ID = VOL38   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

SOURCE ID = VOL39   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
        .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                    PAGE 45
 *** MODELOPTs: RegDFAULT CONC   ELEV   FLGPOL   URBAN   ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL40   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
🅵🅵 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***       10:45:47

                    PAGE  46
 *** MODELOPTs:   RegDFAULT  CONC   ELEV   FLGPOL   URBAN   ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL41        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:45:47

                     PAGE 49
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
```
                                   DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
▚▚ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
(HRDOW) *

SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                    PAGE 54
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
  ( 472283.7, 3752641.0,    492.6,     492.6,     2.0);      ( 472482.2, 3752398.0,
    499.3,     499.3,     2.0);
  ( 472478.0, 3752183.1,    505.1,     505.1,     2.0);      ( 472148.1, 3752531.5,
    495.2,     502.0,     2.0);
  ( 472052.1, 3752531.2,    499.4,     512.0,     2.0);      ( 471975.5, 3752531.2,
    500.5,     514.0,     2.0);
  ( 471896.1, 3752530.9,    503.4,     513.0,     2.0);      ( 471840.8, 3752529.9,
    503.4,     513.0,     2.0);
  ( 471816.6, 3752527.1,    500.6,     513.0,     2.0);      ( 471736.8, 3752557.9,
    501.5,     501.5,     2.0);
  ( 471696.6, 3752558.9,    500.0,     500.0,     2.0);      ( 471627.3, 3752556.2,
    501.9,     512.0,     2.0);
  ( 471584.6, 3752556.8,    504.5,     507.0,     2.0);      ( 471560.0, 3752556.2,
    504.6,     507.0,     2.0);
  ( 471534.3, 3752554.9,    503.2,     509.0,     2.0);      ( 471514.9, 3752554.9,
    502.2,     519.0,     2.0);
  ( 471486.8, 3752555.7,    503.1,     503.1,     2.0);      ( 471465.7, 3752555.4,
    503.1,     503.1,     2.0);
  ( 471442.2, 3752555.0,    501.3,     505.0,     2.0);      ( 471419.7, 3752552.5,
    500.3,     505.0,     2.0);
  ( 471394.2, 3752552.9,    501.4,     501.4,     2.0);      ( 471363.4, 3752552.5,
    503.5,     503.5,     2.0);
  ( 471332.7, 3752553.3,    505.8,     505.8,     2.0);      ( 471307.6, 3752552.9,
    506.9,     506.9,     2.0);
  ( 471284.0, 3752552.7,    506.2,     506.2,     2.0);      ( 471262.0, 3752552.7,
    505.7,     505.7,     2.0);
  ( 471241.9, 3752552.7,    505.6,     505.6,     2.0);      ( 471223.1, 3752552.9,
    505.9,     505.9,     2.0);
  ( 471205.9, 3752552.9,    506.2,     506.2,     2.0);      ( 471173.2, 3752552.4,
    506.5,     506.5,     2.0);
  ( 471135.7, 3752552.5,    506.1,     506.1,     2.0);      ( 471093.2, 3752551.5,
    505.4,     505.4,     2.0);
  ( 471059.4, 3752551.7,    504.7,     504.7,     2.0);      ( 471020.5, 3752551.2,
    503.1,     503.1,     2.0);
  ( 470981.0, 3752563.6,    502.1,     502.1,     2.0);      ( 470980.4, 3752552.2,
    502.5,     502.5,     2.0);
  ( 470980.1, 3752535.6,    503.0,     503.0,     2.0);      ( 470979.9, 3752517.2,
    503.7,     503.7,     2.0);
  ( 470980.1, 3752499.8,    504.0,     504.0,     2.0);      ( 470980.2, 3752479.8,
    504.0,     504.0,     2.0);
  ( 470980.4, 3752459.4,    504.6,     504.6,     2.0);      ( 470980.2, 3752433.2,
    505.4,     505.4,     2.0);
  ( 470980.1, 3752404.0,    506.0,     506.0,     2.0);      ( 470927.1, 3752402.7,
    504.9,     504.9,     2.0);
  ( 470907.9, 3752402.7,    503.1,     503.1,     2.0);      ( 470887.3, 3752402.7,
    500.9,     505.0,     2.0);
  ( 470869.7, 3752402.0,    500.7,     500.7,     2.0);      ( 470849.6, 3752401.9,
    500.3,     500.3,     2.0);
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( 470829.4, 3752402.2,      500.0,      500.0,      2.0);          ( 470811.6, 3752402.2,
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( 470791.5, 3752402.5,      499.2,      499.2,      2.0);          ( 470773.6, 3752401.9,
498.6,      498.6,      2.0);
( 470749.2, 3752402.2,      497.8,      497.8,      2.0);          ( 470727.7, 3752391.7,
497.8,      497.8,      2.0);
( 470733.0, 3752339.0,      499.9,      499.9,      2.0);          ( 470733.7, 3752320.5,
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( 470734.2, 3752291.0,      500.8,      500.8,      2.0);          ( 470733.2, 3752265.8,
500.8,      500.8,      2.0);
( 470732.9, 3752218.8,      501.2,      501.2,      2.0);          ( 470732.5, 3752182.1,
501.8,      501.8,      2.0);
( 470732.4, 3752145.3,      503.0,      503.0,      2.0);          ( 470692.4, 3752144.8,
502.5,      502.5,      2.0);
( 470670.1, 3752144.5,      502.1,      502.1,      2.0);          ( 470651.7, 3752144.3,
502.0,      502.0,      2.0);
( 470633.5, 3752144.1,      501.5,      501.5,      2.0);          ( 470615.5, 3752144.0,
500.9,      500.9,      2.0);
( 470596.0, 3752143.3,      500.2,      500.2,      2.0);          ( 470577.0, 3752143.5,
500.0,      500.0,      2.0);
( 470553.6, 3752143.5,      499.7,      499.7,      2.0);          ( 470528.6, 3752142.6,
498.8,      498.8,      2.0);
( 470508.0, 3752142.8,      497.6,      497.6,      2.0);          ( 470485.6, 3752142.5,
496.3,      496.3,      2.0);
( 470471.6, 3752131.6,      496.1,      496.1,      2.0);          ( 470471.6, 3752109.2,
497.3,      497.3,      2.0);
( 470471.3, 3752085.2,      498.1,      498.1,      2.0);          ( 470471.5, 3752037.7,
499.7,      499.7,      2.0);
( 470471.7, 3752013.0,      500.0,      500.0,      2.0);          ( 470470.9, 3751987.2,
500.1,      500.1,      2.0);
( 470470.9, 3751965.7,      500.1,      500.1,      2.0);          ( 470470.8, 3751944.4,
500.1,      500.1,      2.0);
( 470470.6, 3751924.3,      499.6,      499.6,      2.0);          ( 470470.5, 3751905.9,
499.0,      499.0,      2.0);
( 470470.9, 3751884.1,      499.1,      499.1,      2.0);          ( 470470.6, 3751864.0,
498.6,      498.6,      2.0);
( 470470.3, 3751844.0,      497.9,      497.9,      2.0);          ( 470470.2, 3751824.5,
496.6,      496.6,      2.0);
( 470470.3, 3751805.8,      495.7,      499.0,      2.0);          ( 470470.3, 3751788.0,
495.1,      502.0,      2.0);
( 470470.3, 3751761.2,      497.6,      497.6,      2.0);          ( 470471.0, 3751741.9,
499.5,      499.5,      2.0);
```

▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                     PAGE 55
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                       (METERS)


```
( 470470.0, 3751722.8,      501.4,      501.4,      2.0);          ( 470470.2, 3751703.4,
503.3,      503.3,      2.0);
( 470470.2, 3751683.8,      504.9,      504.9,      2.0);          ( 470470.3, 3751664.3,
506.2,      506.2,      2.0);
( 470470.3, 3751642.4,      507.6,      507.6,      2.0);          ( 470470.5, 3751621.8,
508.5,      508.5,      2.0);
( 470470.2, 3751599.8,      509.0,      509.0,      2.0);          ( 470470.6, 3751578.8,
509.1,      509.1,      2.0);
( 470469.6, 3751555.9,      507.6,      507.6,      2.0);          ( 470470.0, 3751512.5,
504.8,      512.0,      2.0);
( 470468.6, 3751414.6,      501.8,      513.0,      2.0);          ( 470469.8, 3751385.2,
507.1,      513.0,      2.0);
```

```
( 472084.6, 3751348.3,      535.8,      535.8,      2.0);      ( 472104.9, 3751348.7,
534.6,      534.6,      2.0);
( 472127.3, 3751348.5,      533.0,      533.0,      2.0);      ( 472150.8, 3751349.7,
531.4,      531.4,      2.0);
( 472171.5, 3751349.5,      530.3,      530.3,      2.0);      ( 472194.1, 3751349.1,
528.2,      531.0,      2.0);
( 472222.6, 3751348.7,      525.4,      536.0,      2.0);      ( 472247.8, 3751349.5,
523.2,      536.0,      2.0);
( 472269.7, 3751349.1,      520.9,      536.0,      2.0);      ( 472290.4, 3751350.3,
520.7,      535.0,      2.0);
( 472313.6, 3751350.5,      520.9,      532.0,      2.0);      ( 472333.8, 3751351.3,
520.6,      532.0,      2.0);
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

                    PAGE 56
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                               (METERS)


```
( 472354.8, 3751351.3,      518.5,      532.0,      2.0);      ( 472377.7, 3751351.1,
516.0,      532.0,      2.0);
( 472401.7, 3751351.1,      513.6,      533.0,      2.0);      ( 472425.5, 3751351.8,
511.8,      532.0,      2.0);
( 472445.7, 3751350.7,      511.1,      532.0,      2.0);      ( 472463.2, 3751350.9,
509.4,      532.0,      2.0);
( 472484.1, 3751350.9,      507.3,      532.0,      2.0);      ( 472503.9, 3751351.3,
506.3,      532.0,      2.0);
( 472523.8, 3751351.3,      506.2,      531.0,      2.0);      ( 472543.3, 3751351.3,
506.4,      506.4,      2.0);
( 472563.2, 3751352.2,      506.1,      506.1,      2.0);      ( 472582.6, 3751352.0,
505.8,      505.8,      2.0);
( 472601.3, 3751352.0,      505.3,      505.3,      2.0);      ( 472606.8, 3751367.3,
504.3,      504.3,      2.0);
( 472607.6, 3751396.4,      504.2,      504.2,      2.0);      ( 472608.5, 3751432.1,
505.0,      505.0,      2.0);
( 472608.9, 3751462.6,      504.4,      504.4,      2.0);      ( 472609.5, 3751497.1,
505.0,      505.0,      2.0);
( 472610.7, 3751553.8,      505.4,      505.4,      2.0);      ( 472666.0, 3751554.0,
501.3,      501.3,      2.0);
( 472690.4, 3751553.6,      499.8,      499.8,      2.0);      ( 472713.5, 3751554.3,
499.2,      499.2,      2.0);
( 472734.6, 3751554.0,      497.9,      497.9,      2.0);      ( 472759.5, 3751554.0,
496.2,      496.2,      2.0);
( 472781.8, 3751554.5,      494.9,      499.0,      2.0);      ( 472849.8, 3751556.1,
495.4,      495.4,      2.0);
( 472871.8, 3751556.1,      494.9,      494.9,      2.0);      ( 472895.2, 3751555.6,
494.2,      494.2,      2.0);
( 472922.6, 3751555.9,      493.8,      493.8,      2.0);      ( 473092.4, 3751802.3,
486.1,      486.1,      2.0);
( 473204.8, 3751856.8,      481.6,      481.6,      2.0);      ( 472991.2, 3752083.3,
484.1,      484.1,      2.0);
( 473295.1, 3752052.5,      478.7,      478.7,      2.0);      ( 473356.8, 3752050.3,
476.8,      476.8,      2.0);
( 473495.1, 3751996.6,      476.0,      476.0,      2.0);      ( 473486.5, 3751917.7,
475.8,      475.8,      2.0);
( 473392.6, 3752058.2,      475.9,      475.9,      2.0);      ( 473464.3, 3752082.6,
475.2,      475.2,      2.0);
( 473550.3, 3752087.6,      473.0,      473.0,      2.0);      ( 473584.7, 3752089.8,
473.0,      473.0,      2.0);
( 472765.6, 3752474.1,      477.2,      495.0,      2.0);      ( 470432.2, 3750483.9,
532.6,      532.6,      2.0);
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( 469244.1, 3754182.8,     471.3,     485.0,       2.0);          ( 469596.8, 3750785.6,
  493.4,     493.4,     2.0);
( 470466.5, 3750530.3,     535.0,     535.0,       2.0);          ( 469319.3, 3749244.5,
  500.0,     500.0,     2.0);
( 469229.6, 3749502.2,     503.4,     503.4,       2.0);          ( 468465.4, 3749582.3,
  490.5,     490.5,     2.0);
( 471438.4, 3750129.8,     539.2,     539.2,       2.0);          ( 471657.5, 3749918.8,
  535.4,     535.4,     2.0);
( 471732.9, 3749916.5,     534.7,     534.7,       2.0);          ( 471710.3, 3750132.8,
  537.0,     537.0,     2.0);
( 471273.9, 3750119.8,     540.5,     540.5,
  2.0);
```

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                        (1=YES; 0=NO)

        1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

           NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
           INCLUDED IN THE DATA FILE.

                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                         ***
                                        (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23, 10.80,

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

```
 12 01 01 01   10.1 1   55.    2.93    288.2    99.0  -99.00  -99.00


 F indicates top of profile (=1) or below (=0)
 FF *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:45:47


                        PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN   ADJ_U*


                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP:  ALL       ***
                                    INCLUDING SOURCE(S):    VOL1         , VOL2          ,
                                    VOL3          , VOL4       , VOL5         ,
                  VOL6          , VOL7         , VOL8         , VOL9        , VOL10         ,
                  VOL11         , VOL12        , VOL13        ,
                  VOL14         , VOL15        , VOL16        , VOL17       , VOL18         ,
                  VOL19         , VOL20        , VOL21        ,
                  VOL22         , VOL23        , VOL24        , VOL25       , VOL26         ,
                  VOL27         , VOL28        , . . .        ,


                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                            ** CONC OF NOX        IN
                            MICROGRAMS/M**3                              **


     X-COORD (M)  Y-COORD (M)       CONC      (YYMMDDHH)            X-COORD (M)  Y-COORD
     (M)         CONC      (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
      472283.74   3752640.98       3.31318   (13112916)            472482.23
     3752398.04       1.89914   (14111116)
      472477.97   3752183.12       2.20768   (12121716)            472148.10
     3752531.53       6.14659   (13112916)
      472052.12   3752531.22       7.35130   (13112916)            471975.52
     3752531.22       5.57717   (13112916)
      471896.06   3752530.90       5.55144   (13112916)            471840.76
     3752529.94       5.49082   (13112916)
      471816.60   3752527.08       5.27888   (13112916)            471736.82
     3752557.91       5.87398   (13112916)
      471696.59   3752558.87       6.39932   (13112916)            471627.29
     3752556.22       6.24845   (13112916)
      471584.60   3752556.76       5.42685   (13112916)            471560.01
     3752556.22       4.98846   (13112916)
      471534.35   3752554.87       4.73080   (13112916)            471514.89
     3752554.87       4.69015   (13112916)
      471486.79   3752555.68       4.85462   (13112916)            471465.72
     3752555.41       4.99101   (13112916)
      471442.21   3752554.98       4.99752   (13112916)            471419.71
     3752552.46       4.94066   (13112916)
      471394.22   3752552.91       4.76538   (13112916)            471363.44
     3752552.46       4.57497   (13112916)
      471332.68   3752553.31       4.53211   (13112916)            471307.62
     3752552.94       4.68868   (13112916)
      471284.05   3752552.70       4.94924   (13112916)            471261.98
     3752552.70       5.18695   (13112916)
      471241.90   3752552.70       5.33221   (13112916)            471223.15
     3752552.86       5.38346   (13112916)
      471205.90   3752552.86       5.35566   (13112916)            471173.21
     3752552.37       5.08618   (13112916)
      471135.70   3752552.53       4.24282   (13112916)            471093.22
     3752551.54       4.11671   (14021809)
      471059.37   3752551.70       4.21448   (14021809)            471020.54
     3752551.20       3.79529   (14021809)
      470981.05   3752563.65       2.91656   (14021809)            470980.39
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                3752552.20       2.98764  (14021809)
     470980.06   3752535.61       3.09803  (14021809)              470979.89
                3752517.19       3.21652  (14021809)
     470980.06   3752499.76       3.43808  (13021809)              470980.22
                3752479.85       3.78990  (16120116)
     470980.39   3752459.44       4.12722  (13112716)              470980.22
                3752433.22       4.71062  (13112716)
     470980.06   3752404.02       4.94678  (15021709)              470927.12
                3752402.69       3.33188  (13112716)
     470907.87   3752402.69       3.01149  (13112716)              470887.30
                3752402.69       2.73041  (13112716)
     470869.71   3752402.03       2.53943  (13112716)              470849.63
                3752401.86       2.35502  (13112716)
     470829.39   3752402.19       2.19657  (13112716)              470811.63
                3752402.19       2.07506  (13112716)
     470791.55   3752402.53       1.95334  (13112716)              470773.63
                3752401.86       1.85659  (13112716)
     470749.24   3752402.19       1.73946  (13112716)              470727.72
                3752391.74       1.65180  (13112716)
     470733.04   3752338.97       1.66421  (13112716)              470733.70
                3752320.55       1.65855  (13112716)
     470734.20   3752291.01       1.64759  (13112716)              470733.20
                3752265.78       1.63638  (15021709)
     470732.87   3752218.81       1.65814  (15021709)              470732.54
                3752182.14       1.66801  (15021709)
     470732.37   3752145.29       1.68059  (15021709)              470692.38
                3752144.80       1.54858  (15021709)
     470670.14   3752144.46       1.48604  (15021709)              470651.72
                3752144.30       1.43882  (15021709)
     470633.46   3752144.13       1.39594  (15021709)              470615.54
                3752143.97       1.35700  (15021709)
     470595.95   3752143.30       1.31783  (15021709)              470577.03
                3752143.47       1.28217  (15021709)
     470553.63   3752143.47       1.24149  (15021709)              470528.57
                3752142.64       1.20211  (15021709)
     470507.99   3752142.80       1.17176  (15021709)              470485.59
                3752142.47       1.14117  (15021709)
     470471.60   3752131.63       1.12961  (15021709)              470471.60
                3752109.21       1.14376  (15021709)
     470471.32   3752085.22       1.15969  (15021709)              470471.46
                3752037.68       1.19707  (15021709)
     470471.74   3752013.00       1.21960  (15021709)              470470.89
                3751987.18       1.24311  (15021709)
     470470.89   3751965.74       1.26412  (15021709)              470470.75
                3751944.44       1.28442  (15021709)
```

🏳🏳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:45:47

                 PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

```
    X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)        X-COORD (M)  Y-COORD
       (M)       CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      470470.61   3751924.27      1.30253  (15021709)          470470.47
      3751905.93       1.31733  (15021709)
      470470.89   3751884.06      1.33322  (15021709)          470470.61
      3751864.03       1.34328  (15021709)
      470470.33   3751844.00      1.34975  (15021709)          470470.19
      3751824.53       1.35264  (15021709)
      470470.33   3751805.77      1.35265  (15021709)          470470.33
      3751788.00       1.34968  (15021709)
      470470.33   3751761.19      1.34148  (15021709)          470471.03
      3751741.87       1.33397  (15021709)
      470470.05   3751722.82      1.32160  (15021709)          470470.19
      3751703.36       1.30954  (15021709)
      470470.19   3751683.75      1.29598  (15021709)          470470.33
      3751664.28       1.28938  (14123016)
      470470.33   3751642.41      1.29832  (14123016)          470470.47
      3751621.82       1.30367  (14123016)
      470470.19   3751599.81      1.30557  (14123016)          470470.61
      3751578.79       1.30560  (14123016)
      470469.62   3751555.94      1.29685  (14123016)          470470.05
      3751512.49       1.27605  (14123016)
      470468.64   3751414.59      1.19989  (14123016)          470469.76
      3751385.25       1.19779  (14123016)
      470468.65   3751358.95      1.17433  (14123016)          470462.93
      3751325.56       1.13523  (12121315)
      470461.98   3751310.62      1.13167  (12121315)          470462.61
      3751296.63       1.13103  (12121315)
      470462.61   3751283.28      1.12923  (12121315)          470462.61
      3751269.92       1.12721  (12121315)
      470462.93   3751254.35      1.12483  (12121315)          470461.98
      3751240.67       1.11987  (12121315)
      470463.25   3751227.64      1.11769  (12121315)          470756.39
      3751290.59       1.84537  (12121315)
      470797.72   3751268.33      1.94691  (12121315)          470891.19
      3751226.38       2.25506  (12012316)
      470940.78   3751191.82      2.36507  (14020616)          471000.61
      3750923.63       2.13360  (12012316)
      471029.26   3750923.63      2.16057  (12012316)          471056.29
      3750923.90       2.15626  (12012316)
      471077.91   3750924.44      2.13319  (12012316)          471097.64
      3750924.44       2.09287  (12012316)
      471118.18   3750924.98      2.09832  (16112816)          471138.99
      3750927.42       2.28940  (16112816)
      471160.07   3750928.77      2.50359  (16112816)          471181.15
      3750931.47       2.84915  (12121316)
      471201.69   3750930.93      3.29558  (12121316)          471222.50
      3750931.47       3.23764  (12121316)
      471244.13   3750931.20      3.45778  (16112816)          471264.40
      3750931.74       3.64940  (16112816)
      471284.40   3750931.74      3.77922  (16112816)          471305.75
      3750931.74       3.84481  (16112816)
      471324.67   3750930.93      3.82312  (16112816)          471343.05
      3750930.12       3.74371  (16112816)
      471363.86   3750929.04      3.60128  (16112816)          471381.96
      3750928.77       3.45651  (16112816)
      471400.88   3750928.23      3.29874  (16112816)          471421.15
      3750927.96       3.14869  (16112816)
      471440.59   3750928.11      3.04432  (16112816)          471461.83
      3750927.45       2.97799  (16112816)
      471479.76   3750927.95      2.96342  (16112816)          471499.68
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              3750927.62          2.97295   (16112816)
   471519.26    3750928.78          3.00352   (16112816)              471537.02
              3750929.61          3.02327   (16112816)
   471556.77    3750930.94          3.03145   (16112816)              471580.68
              3750934.09          3.01296   (16112816)
   471624.00    3750940.23          3.01932   (15122816)              471795.90
              3750950.11          2.33944   (15122816)
   471796.29    3750967.88          2.36288   (15122816)              471796.69
              3750987.22          2.37426   (15122816)
   471797.47    3751006.75          2.35812   (15122816)              471796.69
              3751025.30          2.38714   (15122816)
   471795.90    3751046.40          2.36444   (15122816)              471796.69
              3751072.96          2.36015   (16112816)
   471797.47    3751143.85          2.74099   (12121716)              471833.01
              3751143.85          2.76257   (12121716)
   471867.38    3751144.05          2.75312   (12121716)              471891.02
              3751144.44          2.72812   (12121716)
   471916.60    3751144.24          2.67390   (12121716)              471939.45
              3751144.24          2.61892   (12121716)
   471963.08    3751144.44          2.53645   (12121716)              471984.17
              3751144.05          2.48346   (12121716)
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                  VOL3   , VOL4   , VOL5   ,
              VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,
              VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
              VOL19   , VOL20   , VOL21   ,
              VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
              VOL27   , VOL28   , . . .   ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                            ** CONC OF NOX   IN
                            MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - -
     471999.02   3751163.38   2.61576   (12121716)   472000.19
              3751199.12   2.88298   (12121716)
     471999.80   3751230.56   3.02775   (12121716)   472000.38
              3751251.46   3.08957   (12121716)
     472000.19   3751281.15   3.17535   (12121716)   472001.95
              3751347.94   3.46867   (12121716)
     472036.90   3751348.52   3.29161   (12121716)   472063.07
              3751349.31   3.17110   (12121716)
     472084.56   3751348.33   3.07638   (12121716)   472104.87
              3751348.72   2.99935   (12121716)
     472127.33   3751348.52   2.91385   (12121716)   472150.76
              3751349.70   2.83394   (12121716)
     472171.47   3751349.50   2.75772   (12121716)   472194.12
              3751349.11   2.67436   (12121716)
     472222.63   3751348.72   2.58388   (12121716)   472247.83
              3751349.50   2.50816   (12121716)
     472269.70   3751349.11   2.44267   (12121716)   472290.40

```
            3751350.28         2.38945   (12121716)
472313.64   3751350.48         2.32904   (12121716)                    472333.76
            3751351.26         2.28023   (12121716)
472354.85   3751351.26         2.22628   (12121716)                    472377.70
            3751351.06         2.16799   (12121716)
472401.72   3751351.06         2.10992   (12121716)                    472425.55
            3751351.84         2.05780   (12121716)
472445.67   3751350.67         2.01317   (12121716)                    472463.24
            3751350.87         1.97595   (12121716)
472484.14   3751350.87         1.93215   (12121716)                    472503.87
            3751351.26         1.89493   (12121716)
472523.79   3751351.26         1.86011   (12121716)                    472543.32
            3751351.26         1.82759   (12121716)
472563.24   3751352.24         1.79609   (12121716)                    472582.57
            3751352.04         1.76472   (12121716)
472601.32   3751352.04         1.73561   (12121716)                    472606.79
            3751367.27         1.74906   (12121716)
472607.57   3751396.37         1.79413   (12121716)                    472608.55
            3751432.11         1.85795   (12121716)
472608.94   3751462.58         1.92201   (12121716)                    472609.52
            3751497.15         2.02168   (12121716)
472610.70   3751553.78         2.28254   (12121716)                    472665.97
            3751553.98         2.24423   (12121716)
472690.38   3751553.59         2.22839   (12121716)                    472713.50
            3751554.27         2.22285   (12121716)
472734.64   3751554.04         2.20991   (12121716)                    472759.46
            3751554.04         2.19611   (12121716)
472781.75   3751554.50         2.18790   (12121716)                    472849.76
            3751556.11         2.17656   (12121716)
472871.82   3751556.11         2.16503   (12121716)                    472895.25
            3751555.65         2.14807   (12121716)
472922.60   3751555.88         2.13291   (12121716)                    473092.41
            3751802.31         3.83118   (12121716)
473204.80   3751856.81         2.62252   (12121716)                    472991.21
            3752083.31         2.79138   (13112916)
473295.12   3752052.49         1.38181   (14111116)                    473356.76
            3752050.34         1.17979   (14111116)
473495.10   3751996.58         1.17079   (13112016)                    473486.50
            3751917.74         1.42050   (13112016)
473392.60   3752058.22         1.09460   (14111116)                    473464.28
            3752082.59         0.96629   (14111116)
473550.29   3752087.61         0.84820   (13121916)                    473584.69
            3752089.76         0.82143   (13121916)
472765.59   3752474.09         1.17818   (14111116)                    470432.16
            3750483.93         1.93793   (12121316)
469244.06   3754182.82         0.40633   (14020709)                    469596.75
            3750785.65         0.61351   (14101709)
470466.55   3750530.27         2.14378   (12121316)                    469319.29
            3749244.53         0.49049   (14121709)
469229.64   3749502.19         0.46880   (15122209)                    468465.38
            3749582.33         0.47976   (12011709)
471438.37   3750129.76         1.42844   (15122816)                    471657.54
            3749918.78         1.05843   (15122816)
471732.91   3749916.52         0.97203   (15122816)                    471710.30
            3750132.80         1.17850   (15122816)
471273.89   3750119.77         1.21805
            (15122816)
```
￼ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:45:47

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                              *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

```
                          ** CONC OF NOX      IN
                          MICROGRAMS/M**3                              **


                                      DATE
                                                                 NETWORK
GROUP ID                          AVERAGE CONC   (YYMMDDHH)     RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -


ALL     HIGH   1ST HIGH VALUE IS       7.35130  ON 13112916: AT (  472052.12,  3752531.22,
499.36,    512.00,    2.00)  DC



  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                    ***        10:45:47


                     PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of        1638 Informational Message(s)

 A Total of       43848 Hours Were Processed

 A Total of        1039 Calm Hours Identified

 A Total of         599 Missing Hours Identified (  1.37 Percent)


     ******** FATAL ERROR MESSAGES ********
             ***   NONE   ***


     ********   WARNING MESSAGES   ********
 ME W186     881      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     881      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


     **********************************
     *** AERMOD Finishes Successfully ***
     **********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM10 Mit\14064
Cons PM10 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM10 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
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         LOCATION VOL29          VOLUME     471577.888  3751616.698       529.000
         LOCATION VOL30          VOLUME     471724.580  3751620.663       533.750
         LOCATION VOL31          VOLUME     471941.049  3751865.677       534.600
         LOCATION VOL32          VOLUME     471795.151  3751684.890       537.260
         LOCATION VOL33          VOLUME     471577.888  3751434.325       531.060
         LOCATION VOL34          VOLUME     471389.965  3751431.946       537.260
         LOCATION VOL35          VOLUME     471202.041  3751467.628       526.830
         LOCATION VOL36          VOLUME     471065.657  3751504.895       521.960
         LOCATION VOL37          VOLUME     471656.388  3751514.411       529.480
         LOCATION VOL38          VOLUME     471522.384  3751324.108       529.000
         LOCATION VOL39          VOLUME     471332.874  3751322.522       529.530
         LOCATION VOL40          VOLUME     471282.920  3751321.729       528.170
         LOCATION VOL41          VOLUME     471233.758  3751388.335       528.470
         LOCATION VOL42          VOLUME     472135.642  3751845.064       525.790
         LOCATION VOL43          VOLUME     472323.361  3751843.460       510.520
         LOCATION VOL44          VOLUME     472512.544  3751852.284       501.450
         LOCATION VOL45          VOLUME     472698.022  3751875.469       491.390
         LOCATION VOL46          VOLUME     472880.772  3751928.657       487.900
         LOCATION VOL47          VOLUME     472608.011  3752044.580       498.520
         LOCATION VOL48          VOLUME     471084.506  3752407.221       506.810
         LOCATION PAREA1         AREAPOLY   470984.533  3751406.024       515.330
** Source Parameters **
         SRCPARAM VOL1           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL2           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL3           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL4           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL5           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL6           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL7           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL8           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL9           0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL10          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL11          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL12          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL13          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL14          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL15          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL16          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL17          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL18          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL19          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL20          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL21          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL22          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL23          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL24          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL25          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL26          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL27          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL28          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL29          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL30          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL31          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL32          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL33          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL34          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL35          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL36          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL37          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL38          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL39          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL40          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL41          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL42          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL43          0.0005873338      5.000      43.702    1.400
         SRCPARAM VOL44          0.0005873338      5.000      43.702    1.400
```

```
    SRCPARAM VOL45          0.0005873338     5.000     43.702     1.400
    SRCPARAM VOL46          0.0005873338     5.000     43.702     1.400
    SRCPARAM VOL47          0.0005873338     5.000     43.702     1.400
    SRCPARAM VOL48          0.0005873338     5.000     43.702     1.400
    SRCPARAM PAREA1         5.9703E-07       0.000        33       1.000
    AREAVERT PAREA1         470984.533 3751406.024 470977.851 3751426.069
    AREAVERT PAREA1         470961.147 3751427.739 470880.967 3751684.984
    AREAVERT PAREA1         470872.615 3751733.426 470869.274 3751801.913
    AREAVERT PAREA1         470885.978 3751888.775 470912.705 3751970.626
    AREAVERT PAREA1         470962.818 3752102.589 470972.840 3752174.417
    AREAVERT PAREA1         470974.511 3752314.732 470999.567 3752316.403
    AREAVERT PAREA1         471001.237 3752498.478 471078.077 3752500.149
    AREAVERT PAREA1         471078.077 3752465.070 471701.143 3752466.740
    AREAVERT PAREA1         471702.814 3752436.673 472100.373 3752443.354
    AREAVERT PAREA1         472095.362 3751942.229 472521.319 3751948.910
    AREAVERT PAREA1         472517.978 3752139.338 472700.054 3752139.338
    AREAVERT PAREA1         472705.065 3751973.967 472935.583 3752014.057
    AREAVERT PAREA1         472963.980 3751842.003 472753.507 3751786.880
    AREAVERT PAREA1         472599.829 3751766.834 472369.311 3751755.142
    AREAVERT PAREA1         472160.508 3751753.471 472005.159 3751771.846
    AREAVERT PAREA1         471585.884 3751228.959 471189.995 3751228.959
    AREAVERT PAREA1         471083.088 3751419.387
    URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Sunday:
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM10 Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
```

```
      RECTABLE ALLAVE 1ST
      RECTABLE 24 1ST
** Auto-Generated Plotfiles
      PLOTFILE 24 ALL 1ST "14064 CONS PM10 MIT.AD\24H1GALL.PLT" 31
      SUMMFILE "14064 Cons PM10 Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of             0 Fatal Error Message(s)
 A Total of             2 Warning Message(s)
 A Total of             0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***


     ********   WARNING MESSAGES   ********
 ME W186      915        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187      915        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                    PAGE   1
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        ***   MODEL SETUP OPTIONS SUMMARY   ***
- -
- - - - - - - - - - - - - -

** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE = F
      * Model Uses NO WET DEPLETION. WETDPLT = F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   49 Source(s),
        for Total of   1 Urban Area(s):
    Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates 1 Short Term Average(s) of: 24-HR

 **This Run Includes: 49 Source(s);   1 Source Group(s); and   233 Receptor(s)

```
              with:      0 POINT(s), including
                         0 POINTCAP(s) and      0 POINTHOR(s)
                and:     48 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of      0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                            ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units  = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.


**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Cons PM10
Mit.err
**File for Summary of Results:   14064 Cons PM10
Mit.sum
```
```
** *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***       10:48:51

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

                                    *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) CATS. VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES HRDOW	0	0.58733E-03	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2	0	0.58733E-03	471362.2	3752367.6	512.4	5.00	43.70	1.40

```
YES     HRDOW
VOL3              0   0.58733E-03   471550.1 3752368.4   518.9   5.00   43.70   1.40
YES     HRDOW
VOL4              0   0.58733E-03   471609.6 3752371.6   516.0   5.00   43.70   1.40
YES     HRDOW
VOL5              0   0.58733E-03   471796.7 3752342.2   515.1   5.00   43.70   1.40
YES     HRDOW
VOL6              0   0.58733E-03   471984.7 3752344.6   513.6   5.00   43.70   1.40
YES     HRDOW
VOL7              0   0.58733E-03   472003.7 3752347.0   512.1   5.00   43.70   1.40
YES     HRDOW
VOL8              0   0.58733E-03   472002.9 3752159.1   521.6   5.00   43.70   1.40
YES     HRDOW
VOL9              0   0.58733E-03   471814.2 3752156.7   520.7   5.00   43.70   1.40
YES     HRDOW
VOL10             0   0.58733E-03   471628.6 3752181.3   526.8   5.00   43.70   1.40
YES     HRDOW
VOL11             0   0.58733E-03   471440.7 3752181.3   527.4   5.00   43.70   1.40
YES     HRDOW
VOL12             0   0.58733E-03   471253.6 3752180.5   518.9   5.00   43.70   1.40
YES     HRDOW
VOL13             0   0.58733E-03   471092.6 3752217.7   509.6   5.00   43.70   1.40
YES     HRDOW
VOL14             0   0.58733E-03   471074.4 3752029.0   516.1   5.00   43.70   1.40
YES     HRDOW
VOL15             0   0.58733E-03   471263.9 3751992.5   521.1   5.00   43.70   1.40
YES     HRDOW
VOL16             0   0.58733E-03   471452.6 3751994.1   530.0   5.00   43.70   1.40
YES     HRDOW
VOL17             0   0.58733E-03   471640.5 3751992.5   534.9   5.00   43.70   1.40
YES     HRDOW
VOL18             0   0.58733E-03   471827.7 3751968.0   533.0   5.00   43.70   1.40
YES     HRDOW
VOL19             0   0.58733E-03   472002.9 3751970.3   527.9   5.00   43.70   1.40
YES     HRDOW
VOL20             0   0.58733E-03   471845.1 3751780.0   538.8   5.00   43.70   1.40
YES     HRDOW
VOL21             0   0.58733E-03   471657.2 3751803.8   536.0   5.00   43.70   1.40
YES     HRDOW
VOL22             0   0.58733E-03   471468.5 3751806.2   528.3   5.00   43.70   1.40
YES     HRDOW
VOL23             0   0.58733E-03   471280.5 3751807.0   525.0   5.00   43.70   1.40
YES     HRDOW
VOL24             0   0.58733E-03   471093.4 3751841.9   515.6   5.00   43.70   1.40
YES     HRDOW
VOL25             0   0.58733E-03   470978.4 3751841.9   518.1   5.00   43.70   1.40
YES     HRDOW
VOL26             0   0.58733E-03   471014.1 3751654.8   520.4   5.00   43.70   1.40
YES     HRDOW
VOL27             0   0.58733E-03   471201.2 3751654.8   525.1   5.00   43.70   1.40
YES     HRDOW
VOL28             0   0.58733E-03   471389.2 3751619.1   534.9   5.00   43.70   1.40
YES     HRDOW
VOL29             0   0.58733E-03   471577.9 3751616.7   529.0   5.00   43.70   1.40
YES     HRDOW
VOL30             0   0.58733E-03   471724.6 3751620.7   533.8   5.00   43.70   1.40
YES     HRDOW
VOL31             0   0.58733E-03   471941.0 3751865.7   534.6   5.00   43.70   1.40
YES     HRDOW
VOL32             0   0.58733E-03   471795.2 3751684.9   537.3   5.00   43.70   1.40
YES     HRDOW
VOL33             0   0.58733E-03   471577.9 3751434.3   531.1   5.00   43.70   1.40
YES     HRDOW
VOL34             0   0.58733E-03   471390.0 3751431.9   537.3   5.00   43.70   1.40
YES     HRDOW
VOL35             0   0.58733E-03   471202.0 3751467.6   526.8   5.00   43.70   1.40
```

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YES    HRDOW
VOL36             0    0.58733E-03   471065.7 3751504.9   522.0     5.00     43.70     1.40
YES    HRDOW
VOL37             0    0.58733E-03   471656.4 3751514.4   529.5     5.00     43.70     1.40
YES    HRDOW
VOL38             0    0.58733E-03   471522.4 3751324.1   529.0     5.00     43.70     1.40
YES    HRDOW
VOL39             0    0.58733E-03   471332.9 3751322.5   529.5     5.00     43.70     1.40
YES    HRDOW
VOL40             0    0.58733E-03   471282.9 3751321.7   528.2     5.00     43.70     1.40
YES    HRDOW
```

🔢 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.58733E-03	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES HRDOW								
VOL42	0	0.58733E-03	472135.6	3751845.1	525.8	5.00	43.70	1.40
YES HRDOW								
VOL43	0	0.58733E-03	472323.4	3751843.5	510.5	5.00	43.70	1.40
YES HRDOW								
VOL44	0	0.58733E-03	472512.5	3751852.3	501.4	5.00	43.70	1.40
YES HRDOW								
VOL45	0	0.58733E-03	472698.0	3751875.5	491.4	5.00	43.70	1.40
YES HRDOW								
VOL46	0	0.58733E-03	472880.8	3751928.7	487.9	5.00	43.70	1.40
YES HRDOW								
VOL47	0	0.58733E-03	472608.0	3752044.6	498.5	5.00	43.70	1.40
YES HRDOW								
VOL48	0	0.58733E-03	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES HRDOW								

🔢 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                   PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                                    *** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC /METER**2) VARY BY	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)

```
 PAREA1              0   0.59703E-06   470984.5 3751406.0   515.3      0.00        33           1.00
 YES   HRDOW
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                     *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
             VOL39   , VOL40   ,

             VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
             VOL47   , VOL48   ,

             PAREA1   ,
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                     *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   ,
 VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,

```
                    VOL39        , VOL40         ,

                    VOL41        , VOL42        , VOL43         , VOL44         , VOL45         , VOL46          ,
                    VOL47        , VOL48         ,

                    PAREA1         ,
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                    PAGE   7
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***       10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***       10:48:51


                    PAGE    8
```
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

```
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                  PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL3   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                  PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL4   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL5         ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▒▒ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
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                      PAGE  14
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL8        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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                      PAGE  15
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL9        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL10   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                    PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL11   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
```

```
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  18
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL12       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  19
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL13       ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 20
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

 ▟▙ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

```
                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = VOL28       ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = VOL29       ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL30        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL31       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 ▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL32       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL33   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL34   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL36   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL37   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL38      ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR
  SCALAR   HOUR  SCALAR   HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

```
SOURCE ID = VOL39      ; SOURCE TYPE = VOLUME  :
 HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR
  SCALAR   HOUR  SCALAR   HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***

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                    PAGE   46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL40        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
*** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
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 *** AERMET - VERSION  16216 ***
   ***                                                    ***          10:48:51

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL41        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

⌐⌐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00

⌐⌐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY

```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🞂🞂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🞂🞂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL45   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

 ** *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL46   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

 ** *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL47        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🏳🏳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔚 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
    SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🔚 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                       *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

   (472283.7, 3752641.0,   492.6,   492.6,   2.0);   (472482.2, 3752398.0,
     499.3,   499.3,   2.0);
   (472478.0, 3752183.1,   505.1,   505.1,   2.0);   (472148.1, 3752531.5,
     495.2,   502.0,   2.0);
   (472052.1, 3752531.2,   499.4,   512.0,   2.0);   (471975.5, 3752531.2,
     500.5,   514.0,   2.0);
   (471896.1, 3752530.9,   503.4,   513.0,   2.0);   (471840.8, 3752529.9,
     503.4,   513.0,   2.0);
   (471816.6, 3752527.1,   500.6,   513.0,   2.0);   (471736.8, 3752557.9,
     501.5,   501.5,   2.0);
   (471696.6, 3752558.9,   500.0,   500.0,   2.0);   (471627.3, 3752556.2,
     501.9,   512.0,   2.0);
   (471584.6, 3752556.8,   504.5,   507.0,   2.0);   (471560.0, 3752556.2,
     504.6,   507.0,   2.0);
   (471534.3, 3752554.9,   503.2,   509.0,   2.0);   (471514.9, 3752554.9,
     502.2,   519.0,   2.0);
   (471486.8, 3752555.7,   503.1,   503.1,   2.0);   (471465.7, 3752555.4,

```
          498.6,      498.6,         2.0);
       ( 470470.3, 3751844.0,      497.9,      497.9,       2.0);            ( 470470.2, 3751824.5,
          496.6,      496.6,         2.0);
       ( 470470.3, 3751805.8,      495.7,      499.0,       2.0);            ( 470470.3, 3751788.0,
          495.1,      502.0,         2.0);
       ( 470470.3, 3751761.2,      497.6,      497.6,       2.0);            ( 470471.0, 3751741.9,
          499.5,      499.5,         2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                         (METERS)


```
       ( 470470.0, 3751722.8,      501.4,      501.4,       2.0);            ( 470470.2, 3751703.4,
          503.3,      503.3,         2.0);
       ( 470470.2, 3751683.8,      504.9,      504.9,       2.0);            ( 470470.3, 3751664.3,
          506.2,      506.2,         2.0);
       ( 470470.3, 3751642.4,      507.6,      507.6,       2.0);            ( 470470.5, 3751621.8,
          508.5,      508.5,         2.0);
       ( 470470.2, 3751599.8,      509.0,      509.0,       2.0);            ( 470470.6, 3751578.8,
          509.1,      509.1,         2.0);
       ( 470469.6, 3751555.9,      507.6,      507.6,       2.0);            ( 470470.0, 3751512.5,
          504.8,      512.0,         2.0);
       ( 470468.6, 3751414.6,      501.8,      513.0,       2.0);            ( 470469.8, 3751385.2,
          507.1,      513.0,         2.0);
       ( 470468.6, 3751358.9,      509.6,      509.6,       2.0);            ( 470462.9, 3751325.6,
          511.9,      511.9,         2.0);
       ( 470462.0, 3751310.6,      512.6,      512.6,       2.0);            ( 470462.6, 3751296.6,
          512.4,      512.4,         2.0);
       ( 470462.6, 3751283.3,      512.0,      512.0,       2.0);            ( 470462.6, 3751269.9,
          511.1,      511.1,         2.0);
       ( 470462.9, 3751254.3,      509.6,      512.0,       2.0);            ( 470462.0, 3751240.7,
          508.9,      508.9,         2.0);
       ( 470463.2, 3751227.6,      509.4,      509.4,       2.0);            ( 470756.4, 3751290.6,
          507.7,      525.0,         2.0);
       ( 470797.7, 3751268.3,      507.7,      525.0,       2.0);            ( 470891.2, 3751226.4,
          512.0,      512.0,         2.0);
       ( 470940.8, 3751191.8,      512.1,      512.1,       2.0);            ( 471000.6, 3750923.6,
          523.8,      523.8,         2.0);
       ( 471029.3, 3750923.6,      523.7,      523.7,       2.0);            ( 471056.3, 3750923.9,
          524.2,      542.0,         2.0);
       ( 471077.9, 3750924.4,      524.8,      543.0,       2.0);            ( 471097.6, 3750924.4,
          525.7,      543.0,         2.0);
       ( 471118.2, 3750925.0,      528.0,      543.0,       2.0);            ( 471139.0, 3750927.4,
          529.8,      543.0,         2.0);
       ( 471160.1, 3750928.8,      530.8,      543.0,       2.0);            ( 471181.1, 3750931.5,
          532.3,      543.0,         2.0);
       ( 471201.7, 3750930.9,      533.3,      543.0,       2.0);            ( 471222.5, 3750931.5,
          533.7,      543.0,         2.0);
       ( 471244.1, 3750931.2,      534.8,      543.0,       2.0);            ( 471264.4, 3750931.7,
          535.7,      538.0,         2.0);
       ( 471284.4, 3750931.7,      536.5,      536.5,       2.0);            ( 471305.8, 3750931.7,
          536.5,      536.5,         2.0);
       ( 471324.7, 3750930.9,      535.8,      535.8,       2.0);            ( 471343.0, 3750930.1,
          534.9,      534.9,         2.0);
       ( 471363.9, 3750929.0,      534.7,      534.7,       2.0);            ( 471382.0, 3750928.8,
          534.8,      534.8,         2.0);
       ( 471400.9, 3750928.2,      535.0,      535.0,       2.0);            ( 471421.1, 3750928.0,
          535.4,      535.4,         2.0);
       ( 471440.6, 3750928.1,      535.6,      535.6,       2.0);            ( 471461.8, 3750927.4,
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          535.7,       535.7,        2.0);
  ( 471479.8, 3750927.9,        535.9,        535.9,        2.0);          ( 471499.7, 3750927.6,
          536.2,       536.2,        2.0);
  ( 471519.3, 3750928.8,        536.6,        549.0,        2.0);          ( 471537.0, 3750929.6,
          538.0,       549.0,        2.0);
  ( 471556.8, 3750930.9,        539.6,        549.0,        2.0);          ( 471580.7, 3750934.1,
          541.7,       549.0,        2.0);
  ( 471624.0, 3750940.2,        545.0,        549.0,        2.0);          ( 471795.9, 3750950.1,
          548.4,       548.4,        2.0);
  ( 471796.3, 3750967.9,        547.3,        547.3,        2.0);          ( 471796.7, 3750987.2,
          545.3,       547.0,        2.0);
  ( 471797.5, 3751006.8,        542.7,        549.0,        2.0);          ( 471796.7, 3751025.3,
          542.0,       547.0,        2.0);
  ( 471795.9, 3751046.4,        541.1,        541.1,        2.0);          ( 471796.7, 3751073.0,
          540.1,       540.1,        2.0);
  ( 471797.5, 3751143.8,        537.7,        537.7,        2.0);          ( 471833.0, 3751143.8,
          537.0,       537.0,        2.0);
  ( 471867.4, 3751144.0,        534.9,        534.9,        2.0);          ( 471891.0, 3751144.4,
          532.9,       532.9,        2.0);
  ( 471916.6, 3751144.2,        530.9,        530.9,        2.0);          ( 471939.5, 3751144.2,
          529.4,       529.4,        2.0);
  ( 471963.1, 3751144.4,        525.8,        535.0,        2.0);          ( 471984.2, 3751144.0,
          524.4,       533.0,        2.0);
  ( 471999.0, 3751163.4,        525.3,        536.0,        2.0);          ( 472000.2, 3751199.1,
          530.8,       530.8,        2.0);
  ( 471999.8, 3751230.6,        532.9,        532.9,        2.0);          ( 472000.4, 3751251.5,
          534.3,       534.3,        2.0);
  ( 472000.2, 3751281.1,        536.2,        536.2,        2.0);          ( 472002.0, 3751347.9,
          537.0,       537.0,        2.0);
  ( 472036.9, 3751348.5,        536.6,        536.6,        2.0);          ( 472063.1, 3751349.3,
          536.5,       536.5,        2.0);
  ( 472084.6, 3751348.3,        535.8,        535.8,        2.0);          ( 472104.9, 3751348.7,
          534.6,       534.6,        2.0);
  ( 472127.3, 3751348.5,        533.0,        533.0,        2.0);          ( 472150.8, 3751349.7,
          531.4,       531.4,        2.0);
  ( 472171.5, 3751349.5,        530.3,        530.3,        2.0);          ( 472194.1, 3751349.1,
          528.2,       531.0,        2.0);
  ( 472222.6, 3751348.7,        525.4,        536.0,        2.0);          ( 472247.8, 3751349.5,
          523.2,       536.0,        2.0);
  ( 472269.7, 3751349.1,        520.9,        536.0,        2.0);          ( 472290.4, 3751350.3,
          520.7,       535.0,        2.0);
  ( 472313.6, 3751350.5,        520.9,        532.0,        2.0);          ( 472333.8, 3751351.3,
          520.6,       532.0,        2.0);
```

▯▯ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                         (METERS)

```
  ( 472354.8, 3751351.3,        518.5,        532.0,        2.0);          ( 472377.7, 3751351.1,
          516.0,       532.0,        2.0);
  ( 472401.7, 3751351.1,        513.6,        533.0,        2.0);          ( 472425.5, 3751351.8,
          511.8,       532.0,        2.0);
  ( 472445.7, 3751350.7,        511.1,        532.0,        2.0);          ( 472463.2, 3751350.9,
          509.4,       532.0,        2.0);
  ( 472484.1, 3751350.9,        507.3,        532.0,        2.0);          ( 472503.9, 3751351.3,
          506.3,       532.0,        2.0);
  ( 472523.8, 3751351.3,        506.2,        531.0,        2.0);          ( 472543.3, 3751351.3,
          506.4,       506.4,        2.0);
  ( 472563.2, 3751352.2,        506.1,        506.1,        2.0);          ( 472582.6, 3751352.0,
```

```
         505.8,      505.8,        2.0);
  ( 472601.3, 3751352.0,      505.3,      505.3,        2.0);        ( 472606.8, 3751367.3,
  504.3,        504.3,        2.0);
  ( 472607.6, 3751396.4,      504.2,      504.2,        2.0);        ( 472608.5, 3751432.1,
  505.0,        505.0,        2.0);
  ( 472608.9, 3751462.6,      504.4,      504.4,        2.0);        ( 472609.5, 3751497.1,
  505.0,        505.0,        2.0);
  ( 472610.7, 3751553.8,      505.4,      505.4,        2.0);        ( 472666.0, 3751554.0,
  501.3,        501.3,        2.0);
  ( 472690.4, 3751553.6,      499.8,      499.8,        2.0);        ( 472713.5, 3751554.3,
  499.2,        499.2,        2.0);
  ( 472734.6, 3751554.0,      497.9,      497.9,        2.0);        ( 472759.5, 3751554.0,
  496.2,        496.2,        2.0);
  ( 472781.8, 3751554.5,      494.9,      499.0,        2.0);        ( 472849.8, 3751556.1,
  495.4,        495.4,        2.0);
  ( 472871.8, 3751556.1,      494.9,      494.9,        2.0);        ( 472895.2, 3751555.6,
  494.2,        494.2,        2.0);
  ( 472922.6, 3751555.9,      493.8,      493.8,        2.0);        ( 473092.4, 3751802.3,
  486.1,        486.1,        2.0);
  ( 473204.8, 3751856.8,      481.6,      481.6,        2.0);        ( 472991.2, 3752083.3,
  484.1,        484.1,        2.0);
  ( 473295.1, 3752052.5,      478.7,      478.7,        2.0);        ( 473356.8, 3752050.3,
  476.8,        476.8,        2.0);
  ( 473495.1, 3751996.6,      476.0,      476.0,        2.0);        ( 473486.5, 3751917.7,
  475.8,        475.8,        2.0);
  ( 473392.6, 3752058.2,      475.9,      475.9,        2.0);        ( 473464.3, 3752082.6,
  475.2,        475.2,        2.0);
  ( 473550.3, 3752087.6,      473.0,      473.0,        2.0);        ( 473584.7, 3752089.8,
  473.0,        473.0,        2.0);
  ( 472765.6, 3752474.1,      477.2,      495.0,        2.0);        ( 470432.2, 3750483.9,
  532.6,        532.6,        2.0);
  ( 469244.1, 3754182.8,      471.3,      485.0,        2.0);        ( 469596.8, 3750785.6,
  493.4,        493.4,        2.0);
  ( 470466.5, 3750530.3,      535.0,      535.0,        2.0);        ( 469319.3, 3749244.5,
  500.0,        500.0,        2.0);
  ( 469229.6, 3749502.2,      503.4,      503.4,        2.0);        ( 468465.4, 3749582.3,
  490.5,        490.5,        2.0);
  ( 471438.4, 3750129.8,      539.2,      539.2,        2.0);        ( 471657.5, 3749918.8,
  535.4,        535.4,        2.0);
  ( 471732.9, 3749916.5,      534.7,      534.7,        2.0);        ( 471710.3, 3750132.8,
  537.0,        537.0,        2.0);
  ( 471273.9, 3750119.8,      540.5,      540.5,
  2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                PAGE 59
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                        (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1   1 1 1 1 1 1 1 1 1 1

```
         1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

                NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
                INCLUDED IN THE DATA FILE.

                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                         ***

                                          (METERS/SEC)

                            1.54,   3.09,   5.14,   8.23, 10.80,

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:   3171   Upper air station no.:   3190
             Name: UNKNOWN   Name:
             UNKNOWN
             Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS
 WD   HT REF TA   HT
- -
- - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15 2.40 1.00   2.93
 55. 10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15 2.40 1.00   3.05
 55. 10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15 2.40 1.00   2.45
 74. 10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15 2.40 1.00   2.52
 77. 10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15 2.40 1.00   2.30
 80. 10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15 2.40 1.00   1.93
 79. 10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15 2.40 1.00   1.96
 77. 10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15 2.40 0.53   1.89
 77. 10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15 2.40 0.31   2.10
 81. 10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005 129. 293.   -11.8 0.15 2.40 0.24   1.99
 101. 10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005 369. 611.   -35.6 0.15 2.40 0.21   3.68
```

```
78.   10.1 298.8   2.0
12 01 01   1 12 184.7 0.337 1.516 0.005 668. 473.   -18.4 0.15 2.40 0.20   2.89
68.   10.1 300.4   2.0
12 01 01   1 13 183.9 0.310 1.809 0.005 1139. 414.   -14.2 0.15 2.40 0.20   2.57
64.   10.1 302.5   2.0
12 01 01   1 14 156.6 0.374 1.852 0.005 1434. 549.   -29.5 0.15 2.40 0.22   3.37
63.   10.1 303.1   2.0
12 01 01   1 15 104.3 0.382 1.658 0.005 1546. 567.   -47.2 0.15 2.40 0.25   3.59
62.   10.1 302.5   2.0
12 01 01   1 16   31.8 0.374 1.123 0.005 1573. 550.   -145.8 0.15 2.40 0.34   3.76
69.   10.1 300.9   2.0
12 01 01   1 17 -23.3 0.276 -9.000 -9.000 -999. 354.   84.0 0.15 2.40 0.62   3.03
59.   10.1 297.5   2.0
12 01 01   1 18 -21.5 0.229 -9.000 -9.000 -999. 264.   57.8 0.15 2.40 1.00   2.54
54.   10.1 295.4   2.0
12 01 01   1 19 -19.3 0.204 -9.000 -9.000 -999. 221.   45.6 0.15 2.40 1.00   2.27
79.   10.1 292.0   2.0
12 01 01   1 20 -20.7 0.218 -9.000 -9.000 -999. 244.   52.2 0.15 2.40 1.00   2.42
79.   10.1 292.5   2.0
12 01 01   1 21 -19.7 0.206 -9.000 -9.000 -999. 225.   46.9 0.15 2.40 1.00   2.30
95.   10.1 290.9   2.0
12 01 01   1 22 -17.6 0.190 -9.000 -9.000 -999. 199.   39.8 0.15 2.40 1.00   2.13
78.   10.1 290.4   2.0
12 01 01   1 23 -20.3 0.211 -9.000 -9.000 -999. 233.   49.0 0.15 2.40 1.00   2.35
52.   10.1 289.2   2.0
12 01 01   1 24 -16.4 0.183 -9.000 -9.000 -999. 189.   37.0 0.15 2.40 1.00   2.06
75.   10.1 288.8   2.0

  First hour of profile data
  YR MO DY HR HEIGHT F WDIR   WSPD AMB_TMP sigmaA sigmaW sigmaV
  12 01 01 01   10.1 1   55.   2.93   288.2   99.0 -99.00 -99.00

  F indicates top of profile (=1) or below (=0)
```
🄵🄵 *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
```
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 61
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                 VOL3   , VOL4   , VOL5   ,
              VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,
              VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
              VOL19   , VOL20   , VOL21   ,
              VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
              VOL27   , VOL28   , . . .   ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                     ** CONC OF PM_10   IN
                        MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - -
       472283.74 3752640.98   0.32752 (13100924)   472482.23
       3752398.04   0.41926m (13112124)
       472477.97 3752183.12   0.54166 (13121924)   472148.10
       3752531.53   0.53173 (13100924)
```

```
472052.12   3752531.22      0.61912  (13100924)              471975.52
3752531.22       0.66011  (13100924)
471896.06   3752530.90      0.68876  (13100924)              471840.76
3752529.94       0.69542  (13100924)
471816.60   3752527.08      0.69244  (13100924)              471736.82
3752557.91       0.65019  (13100924)
471696.59   3752558.87      0.64627  (13100924)              471627.29
3752556.22       0.66285  (13100924)
471584.60   3752556.76      0.66445  (13100924)              471560.01
3752556.22       0.66020  (13100924)
471534.35   3752554.87      0.65402  (16010624)              471514.89
3752554.87       0.65482  (16010624)
471486.79   3752555.68      0.66222  (16010624)              471465.72
3752555.41       0.66669  (16010624)
471442.21   3752554.98      0.66288  (16010624)              471419.71
3752552.46       0.66882  (16010624)
471394.22   3752552.91      0.67411  (16010624)              471363.44
3752552.46       0.68760  (16010624)
471332.68   3752553.31      0.69363  (16010624)              471307.62
3752552.94       0.69814  (16010624)
471284.05   3752552.70      0.69571  (16010624)              471261.98
3752552.70       0.69257  (16010624)
471241.90   3752552.70      0.69032  (16010624)              471223.15
3752552.86       0.68863  (16010624)
471205.90   3752552.86      0.68727  (16010624)              471173.21
3752552.37       0.68635  (16010624)
471135.70   3752552.53      0.68483  (16010624)              471093.22
3752551.54       0.68701  (16010624)
471059.37   3752551.70      0.69412  (16010624)              471020.54
3752551.20       0.69762  (16010624)
470981.05   3752563.65      0.60360  (16010524)              470980.39
3752552.20       0.65136  (16010524)
470980.06   3752535.61      0.73168  (16010524)              470979.89
3752517.19       0.83341  (16010524)
470980.06   3752499.76      0.93859  (14121224)              470980.22
3752479.85       1.01072  (14121224)
470980.39   3752459.44      1.05313  (14121224)              470980.22
3752433.22       1.08956  (14121224)
470980.06   3752404.02      1.16838  (12121324)              470927.12
3752402.69       0.76038  (14121224)
470907.87   3752402.69      0.68781  (14121224)              470887.30
3752402.69       0.62521  (14121224)
470869.71   3752402.03      0.58608  (14121224)              470849.63
3752401.86       0.54555  (14121224)
470829.39   3752402.19      0.50892  (14121224)              470811.63
3752402.19       0.48028  (14121224)
470791.55   3752402.53      0.45091  (14121224)              470773.63
3752401.86       0.42764  (14121224)
470749.24   3752402.19      0.39898  (14121224)              470727.72
3752391.74       0.38071  (14121224)
470733.04   3752338.97      0.40343  (14121224)              470733.70
3752320.55       0.40896  (14121224)
470734.20   3752291.01      0.41717  (14121224)              470733.20
3752265.78       0.42597  (15112724)
470732.87   3752218.81      0.44775  (15112724)              470732.54
3752182.14       0.46273  (15112724)
470732.37   3752145.29      0.47784  (15112724)              470692.38
3752144.80       0.43222  (15112724)
470670.14   3752144.46      0.41030  (15112724)              470651.72
3752144.30       0.39366  (15112724)
470633.46   3752144.13      0.37834  (15112724)              470615.54
3752143.97       0.36435  (15112724)
470595.95   3752143.30      0.35026  (15112724)              470577.03
3752143.47       0.33734  (15112724)
470553.63   3752143.47      0.32254  (15112724)              470528.57
3752142.64       0.30815  (15112724)
```

```
        470507.99    3752142.80         0.29693  (15112724)              470485.59
        3752142.47         0.28563  (15112724)
        470471.60    3752131.63         0.28168  (15112724)              470471.60
        3752109.21         0.28732  (15112724)
        470471.32    3752085.22         0.29303  (15112724)              470471.46
        3752037.68         0.30394  (15112724)
        470471.74    3752013.00         0.30927  (15112724)              470470.89
        3751987.18         0.31383  (15112724)
        470470.89    3751965.74         0.31763  (15112724)              470470.75
        3751944.44         0.32096  (15112724)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                        PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                             INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
            VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
            VOL11       , VOL12       , VOL13       ,
            VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
            VOL19       , VOL20       , VOL21       ,
            VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
            VOL27       , VOL28       ,  . . .      ,


                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                       ** CONC OF PM_10     IN
                       MICROGRAMS/M**3                                   **


    X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD
       (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
       470470.61    3751924.27         0.32374  (15112724)              470470.47
       3751905.93         0.32590  (15112724)
       470470.89    3751884.06         0.32835  (15112724)              470470.61
       3751864.03         0.32969  (15112724)
       470470.33    3751844.00         0.33046  (15112724)              470470.19
       3751824.53         0.33066  (15112724)
       470470.33    3751805.77         0.33050  (15112724)              470470.33
       3751788.00         0.32980  (15112724)
       470470.33    3751761.19         0.32836  (15112724)              470471.03
       3751741.87         0.32691  (15112724)
       470470.05    3751722.82         0.32372  (15112724)              470470.19
       3751703.36         0.32043  (15112724)
       470470.19    3751683.75         0.31855  (14121624)              470470.33
       3751664.28         0.31699  (14121624)
       470470.33    3751642.41         0.31445  (14121624)              470470.47
       3751621.82         0.31156  (14121624)
       470470.19    3751599.81         0.31209c (14123024)              470470.61
       3751578.79         0.31684c (14123024)
       470469.62    3751555.94         0.32001c (14123024)              470470.05
       3751512.49         0.32557c (14123024)
       470468.64    3751414.59         0.32603c (14123024)              470469.76
       3751385.25         0.32508c (14123024)
       470468.65    3751358.95         0.32145c (14123024)              470462.93
       3751325.56         0.31320c (14123024)
       470461.98    3751310.62         0.31064  (13012524)              470462.61
       3751296.63         0.31147  (13012524)
       470462.61    3751283.28         0.31185  (13012524)              470462.61
       3751269.92         0.31199  (13012524)
```

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470462.93   3751254.35      0.31194 (13012524)               470461.98
3751240.67      0.31146 (13012524)
470463.25   3751227.64      0.31169 (13012524)               470756.39
3751290.59      0.61726 (12121324)
470797.72   3751268.33      0.65754 (12121324)               470891.19
3751226.38      0.72529 (12121324)
470940.78   3751191.82      0.70680 (12121324)               471000.61
3750923.63      0.45855 (12121324)
471029.26   3750923.63      0.46430 (12121324)               471056.29
3750923.90      0.46645 (12121324)
471077.91   3750924.44      0.46578 (12121324)               471097.64
3750924.44      0.46299 (12121324)
471118.18   3750924.98      0.45768 (12121324)               471138.99
3750927.42      0.45369 (12121324)
471160.07   3750928.77      0.44928 (12121324)               471181.15
3750931.47      0.44607 (12121324)
471201.69   3750930.93      0.44034 (12121324)               471222.50
3750931.47      0.43493 (12121324)
471244.13   3750931.20      0.42720 (12121324)               471264.40
3750931.74      0.41970 (12121324)
471284.40   3750931.74      0.41143 (12121324)               471305.75
3750931.74      0.40277 (12121324)
471324.67   3750930.93      0.39432 (12121324)               471343.05
3750930.12      0.38937m (14123124)
471363.86   3750929.04      0.38375m (14123124)              471381.96
3750928.77      0.37693m (14123124)
471400.88   3750928.23      0.36667m (14123124)              471421.15
3750927.96      0.35470 (15122824)
471440.59   3750928.11      0.36034 (15122824)               471461.83
3750927.45      0.36544 (15122824)
471479.76   3750927.95      0.36996 (15122824)               471499.68
3750927.62      0.37368 (15122824)
471519.26   3750928.78      0.37804 (15122824)               471537.02
3750929.61      0.38009 (15122824)
471556.77   3750930.94      0.38189 (15122824)               471580.68
3750934.09      0.38399 (15122824)
471624.00   3750940.23      0.38242 (15122824)               471795.90
3750950.11      0.32844 (15122824)
471796.29   3750967.88      0.34033 (15122824)               471796.69
3750987.22      0.35514 (15122824)
471797.47   3751006.75      0.37185 (15122824)               471796.69
3751025.30      0.38708 (15122824)
471795.90   3751046.40      0.40541 (15122824)               471796.69
3751072.96      0.42860 (15122824)
471797.47   3751143.85      0.49642 (15122824)               471833.01
3751143.85      0.46357 (15122824)
471867.38   3751144.05      0.43660 (15122824)               471891.02
3751144.44      0.42036 (15122824)
471916.60   3751144.24      0.40287 (15122824)               471939.45
3751144.24      0.38756 (15122824)
471963.08   3751144.44      0.37545 (15122824)               471984.17
3751144.05      0.36233 (15122824)
```
🔡 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 63
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                           INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
           VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,

```
                VOL14          , VOL15          , VOL16          , VOL17          , VOL18          ,
                VOL19          , VOL20          , VOL21          ,
                VOL22          , VOL23          , VOL24          , VOL25          , VOL26          ,
                VOL27          , VOL28          ,  . . .          ,
```

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                        ** CONC OF PM_10   IN
                           MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
471999.02	3751163.38	0.35991	(15122824)	472000.19	3751199.12	0.36805	(15122824)
471999.80	3751230.56	0.38025	(15122824)	472000.38	3751251.46	0.38801	(15122824)
472000.19	3751281.15	0.40203	(13112024)	472001.95	3751347.94	0.45753	(13112024)
472036.90	3751348.52	0.42900	(13112024)	472063.07	3751349.31	0.41033	(13112024)
472084.56	3751348.33	0.39633	(13112024)	472104.87	3751348.72	0.38601	(13112024)
472127.33	3751348.52	0.37556	(13112024)	472150.76	3751349.70	0.36656	(13112024)
472171.47	3751349.50	0.35811	(13112024)	472194.12	3751349.11	0.35094	(13112024)
472222.63	3751348.72	0.34323	(13112024)	472247.83	3751349.50	0.33769	(13112024)
472269.70	3751349.11	0.33371	(13112024)	472290.40	3751350.28	0.32824	(13112024)
472313.64	3751350.48	0.32163	(13112024)	472333.76	3751351.26	0.31735	(13112024)
472354.85	3751351.26	0.31559	(13112024)	472377.70	3751351.06	0.31464	(13112024)
472401.72	3751351.06	0.31369	(13112024)	472425.55	3751351.84	0.30968	(13112024)
472445.67	3751350.67	0.30537	(13112024)	472463.24	3751350.87	0.30232	(13112024)
472484.14	3751350.87	0.29844	(13112024)	472503.87	3751351.26	0.29459	(13112024)
472523.79	3751351.26	0.29022	(13112024)	472543.32	3751351.26	0.28574	(13112024)
472563.24	3751352.24	0.28151	(13112024)	472582.57	3751352.04	0.27685	(13112024)
472601.32	3751352.04	0.27243	(13112024)	472606.79	3751367.27	0.27718	(13112024)
472607.57	3751396.37	0.28912	(13112024)	472608.55	3751432.11	0.30549	(13112024)
472608.94	3751462.58	0.32194	(13112024)	472609.52	3751497.15	0.34389	(13112024)
472610.70	3751553.78	0.39270	(13112024)	472665.97	3751553.98	0.37615	(13112024)
472690.38	3751553.59	0.36950	(13112024)	472713.50	3751554.27	0.36506	(13112024)
472734.64	3751554.04	0.36062	(13112024)	472759.46	3751554.04	0.35603	(13112024)
472781.75	3751554.50	0.35240	(13112024)	472849.76	3751556.11	0.33876	(13112024)
472871.82	3751556.11	0.33181	(13112024)	472895.25	3751555.65	0.32312	(13112024)
472922.60	3751555.88	0.31335	(13112024)	473092.41	3751802.31	0.60296	(12042324)
473204.80	3751856.81	0.49004	(13111924)	472991.21	3752083.31	0.53068m	(13112124)

```
473295.12   3752052.49        0.33937m (13112124)              473356.76
3752050.34      0.29762  (15042424)
473495.10   3751996.58        0.27042  (15042424)              473486.50
3751917.74      0.28226  (12050124)
473392.60   3752058.22        0.28230  (13020524)              473464.28
3752082.59      0.26074  (13020524)
473550.29   3752087.61        0.24283  (13020524)              473584.69
3752089.76      0.23675  (13020524)
472765.59   3752474.09        0.30541m (13112124)              470432.16
3750483.93      0.25385  (12121324)
469244.06   3754182.82        0.06355  (16091624)              469596.75
3750785.65      0.20761  (13012524)
470466.55   3750530.27        0.26275  (12121324)              469319.29
3749244.53      0.09536  (12010224)
469229.64   3749502.19        0.09428  (12010324)              468465.38
3749582.33      0.12493  (13012524)
471438.37   3750129.76        0.12546  (16011524)              471657.54
3749918.78      0.11755  (15122824)
471732.91   3749916.52        0.11795  (15122824)              471710.30
3750132.80      0.13788  (15122824)
471273.89   3750119.77        0.11543
(16011524)
```

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                          ** CONC OF PM_10   IN
                          MICROGRAMS/M**3   **

                                          DATE
                                                                  NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - -

ALL   HIGH 1ST HIGH VALUE IS   1.16838 ON 12121324: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:48:51

                 PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/26/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Cons PM25 Mit\14064
Cons PM25 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Cons PM25 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

```
   SRCPARAM VOL45          0.0005873338     5.000    43.702    1.400
   SRCPARAM VOL46          0.0005873338     5.000    43.702    1.400
   SRCPARAM VOL47          0.0005873338     5.000    43.702    1.400
   SRCPARAM VOL48          0.0005873338     5.000    43.702    1.400
   SRCPARAM PAREA1         1.8916E-07       0.000       33     1.000
   AREAVERT PAREA1         470984.533 3751406.024 470977.851 3751426.069
   AREAVERT PAREA1         470961.147 3751427.739 470880.967 3751684.984
   AREAVERT PAREA1         470872.615 3751733.426 470869.274 3751801.913
   AREAVERT PAREA1         470885.978 3751888.775 470912.705 3751970.626
   AREAVERT PAREA1         470962.818 3752102.589 470972.840 3752174.417
   AREAVERT PAREA1         470974.511 3752314.732 470999.567 3752316.403
   AREAVERT PAREA1         471001.237 3752498.478 471078.077 3752500.149
   AREAVERT PAREA1         471078.077 3752465.070 471701.143 3752466.740
   AREAVERT PAREA1         471702.814 3752436.673 472100.373 3752443.354
   AREAVERT PAREA1         472095.362 3751942.229 472521.319 3751948.910
   AREAVERT PAREA1         472517.978 3752139.338 472700.054 3752139.338
   AREAVERT PAREA1         472705.065 3751973.967 472935.583 3752014.057
   AREAVERT PAREA1         472963.980 3751842.003 472753.507 3751786.880
   AREAVERT PAREA1         472599.829 3751766.834 472369.311 3751755.142
   AREAVERT PAREA1         472160.508 3751753.471 472005.159 3751771.846
   AREAVERT PAREA1         471585.884 3751228.959 471189.995 3751228.959
   AREAVERT PAREA1         471083.088 3751419.387
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL3           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
** Sunday:
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA1      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064 Cons PM25 Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
```

```
      RECTABLE ALLAVE 1ST
      RECTABLE 24 1ST
** Auto-Generated Plotfiles
      PLOTFILE 24 ALL 1ST "14064 CONS PM25 MIT.AD\24H1GALL.PLT" 31
      SUMMFILE "14064 Cons PM25 Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


     ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


     ********   WARNING MESSAGES   ********
 ME W186     915         MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187     915         MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

                    PAGE   1
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    ***   MODEL SETUP OPTIONS SUMMARY   ***
- -
- - - - - - - - - - - - - - -

** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE = F
      * Model Uses NO WET DEPLETION. WETDPLT = F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   49 Source(s),
        for Total of   1 Urban Area(s):
    Urban Population = 2189641.0 ; Urban Roughness Length = 1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: PM_2.5

 **Model Calculates 1 Short Term Average(s) of: 24-HR

 **This Run Includes: 49 Source(s);   1 Source Group(s); and   233 Receptor(s)

```
               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     48 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                             ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.


**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Cons PM25
Mit.err
**File for Summary of Results:   14064 Cons PM25
Mit.sum
```
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
```
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        10:54:59

                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                            *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
            URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT      SY        SZ
  SOURCE   SCALAR VARY
    ID       CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -


VOL1            0   0.58733E-03  471175.5 3752366.4   510.2     5.00    43.70      1.40
YES    HRDOW
VOL2            0   0.58733E-03  471362.2 3752367.6   512.4     5.00    43.70      1.40
```

SOURCE ID		EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ (METERS)
VOL36	0	0.58733E-03	471065.7	3751504.9	522.0	5.00	43.70	1.40
YES HRDOW								
VOL37	0	0.58733E-03	471656.4	3751514.4	529.5	5.00	43.70	1.40
YES HRDOW								
VOL38	0	0.58733E-03	471522.4	3751324.1	529.0	5.00	43.70	1.40
YES HRDOW								
VOL39	0	0.58733E-03	471332.9	3751322.5	529.5	5.00	43.70	1.40
YES HRDOW								
VOL40	0	0.58733E-03	471282.9	3751321.7	528.2	5.00	43.70	1.40
YES HRDOW								

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR CATS. (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.58733E-03	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES HRDOW								
VOL42	0	0.58733E-03	472135.6	3751845.1	525.8	5.00	43.70	1.40
YES HRDOW								
VOL43	0	0.58733E-03	472323.4	3751843.5	510.5	5.00	43.70	1.40
YES HRDOW								
VOL44	0	0.58733E-03	472512.5	3751852.3	501.4	5.00	43.70	1.40
YES HRDOW								
VOL45	0	0.58733E-03	472698.0	3751875.5	491.4	5.00	43.70	1.40
YES HRDOW								
VOL46	0	0.58733E-03	472880.8	3751928.7	487.9	5.00	43.70	1.40
YES HRDOW								
VOL47	0	0.58733E-03	472608.0	3752044.6	498.5	5.00	43.70	1.40
YES HRDOW								
VOL48	0	0.58733E-03	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES HRDOW								

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR CATS. (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC /METER**2) VARY BY	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)

```
 PAREA1            0   0.18916E-06   470984.5 3751406.0   515.3    0.00      33           1.00
YES   HRDOW
```
░░ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

               PAGE   5
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

            VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
            VOL15   , VOL16   ,

            VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
            VOL23   , VOL24   ,

            VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
            VOL31   , VOL32   ,

            VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
            VOL39   , VOL40   ,

            VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
            VOL47   , VOL48   ,

            PAREA1   ,

░░ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   ,
 VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,

```
                 VOL39        , VOL40        ,

                 VOL41        , VOL42       , VOL43        , VOL44        , VOL45        , VOL46         ,
                 VOL47        , VOL48        ,

                 PAREA1       ,
```
▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

                   PAGE   7
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```
▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                 ***        10:54:59


                   PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL2        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL4        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

```
- - - - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL5          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL6          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

           PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL7          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
       .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL8        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL9        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▟▛ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL10      ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▟▛ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL11      ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
     .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE 19
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :

```
HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
 SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:54:59

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
***   ***   10:54:59

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

```
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
▆▆ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL26        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
▆▆ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        10:54:59


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
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    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                   PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
```

- -
- - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL31        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 ▨▨ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs:     RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
```

```
         .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = VOL35   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        10:54:59


                     PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL36         ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
 9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
 9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
🆭🆭 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        10:54:59

                   PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
🆭🆭 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
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  ***                                                           ***          10:54:59

                  PAGE  46
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL40          ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▣▣ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/26/23
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 *** AERMET - VERSION  16216 ***
  ***                                                           ***          10:54:59

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL41          ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                    PAGE 48
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE 49
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⌷⌷ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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```
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL44       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⌷⌷ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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```
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL45       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
```

```
                               DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                               DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                               DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                               DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                               DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                               DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL47        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 *** 10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 *** 10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

   (472283.7, 3752641.0,   492.6,   492.6,   2.0);   (472482.2, 3752398.0,
    499.3,   499.3,   2.0);
   (472478.0, 3752183.1,   505.1,   505.1,   2.0);   (472148.1, 3752531.5,
    495.2,   502.0,   2.0);
   (472052.1, 3752531.2,   499.4,   512.0,   2.0);   (471975.5, 3752531.2,
    500.5,   514.0,   2.0);
   (471896.1, 3752530.9,   503.4,   513.0,   2.0);   (471840.8, 3752529.9,
    503.4,   513.0,   2.0);
   (471816.6, 3752527.1,   500.6,   513.0,   2.0);   (471736.8, 3752557.9,
    501.5,   501.5,   2.0);
   (471696.6, 3752558.9,   500.0,   500.0,   2.0);   (471627.3, 3752556.2,
    501.9,   512.0,   2.0);
   (471584.6, 3752556.8,   504.5,   507.0,   2.0);   (471560.0, 3752556.2,
    504.6,   507.0,   2.0);
   (471534.3, 3752554.9,   503.2,   509.0,   2.0);   (471514.9, 3752554.9,
    502.2,   519.0,   2.0);
   (471486.8, 3752555.7,   503.1,   503.1,   2.0);   (471465.7, 3752555.4,

```
      498.6,      498.6,       2.0);
   ( 470470.3, 3751844.0,     497.9,      497.9,       2.0);          ( 470470.2, 3751824.5,
      496.6,      496.6,       2.0);
   ( 470470.3, 3751805.8,     495.7,      499.0,       2.0);          ( 470470.3, 3751788.0,
      495.1,      502.0,       2.0);
   ( 470470.3, 3751761.2,     497.6,      497.6,       2.0);          ( 470471.0, 3751741.9,
      499.5,      499.5,       2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
  ***   ***   10:54:59

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

```
   ( 470470.0, 3751722.8,     501.4,      501.4,       2.0);          ( 470470.2, 3751703.4,
      503.3,      503.3,       2.0);
   ( 470470.2, 3751683.8,     504.9,      504.9,       2.0);          ( 470470.3, 3751664.3,
      506.2,      506.2,       2.0);
   ( 470470.3, 3751642.4,     507.6,      507.6,       2.0);          ( 470470.5, 3751621.8,
      508.5,      508.5,       2.0);
   ( 470470.2, 3751599.8,     509.0,      509.0,       2.0);          ( 470470.6, 3751578.8,
      509.1,      509.1,       2.0);
   ( 470469.6, 3751555.9,     507.6,      507.6,       2.0);          ( 470470.0, 3751512.5,
      504.8,      512.0,       2.0);
   ( 470468.6, 3751414.6,     501.8,      513.0,       2.0);          ( 470469.8, 3751385.2,
      507.1,      513.0,       2.0);
   ( 470468.6, 3751358.9,     509.6,      509.6,       2.0);          ( 470462.9, 3751325.6,
      511.9,      511.9,       2.0);
   ( 470462.0, 3751310.6,     512.6,      512.6,       2.0);          ( 470462.6, 3751296.6,
      512.4,      512.4,       2.0);
   ( 470462.6, 3751283.3,     512.0,      512.0,       2.0);          ( 470462.6, 3751269.9,
      511.1,      511.1,       2.0);
   ( 470462.9, 3751254.3,     509.6,      512.0,       2.0);          ( 470462.0, 3751240.7,
      508.9,      508.9,       2.0);
   ( 470463.2, 3751227.6,     509.4,      509.4,       2.0);          ( 470756.4, 3751290.6,
      507.7,      525.0,       2.0);
   ( 470797.7, 3751268.3,     507.7,      525.0,       2.0);          ( 470891.2, 3751226.4,
      512.0,      512.0,       2.0);
   ( 470940.8, 3751191.8,     512.1,      512.1,       2.0);          ( 471000.6, 3750923.6,
      523.8,      523.8,       2.0);
   ( 471029.3, 3750923.6,     523.7,      523.7,       2.0);          ( 471056.3, 3750923.9,
      524.2,      542.0,       2.0);
   ( 471077.9, 3750924.4,     524.8,      543.0,       2.0);          ( 471097.6, 3750924.4,
      525.7,      543.0,       2.0);
   ( 471118.2, 3750925.0,     528.0,      543.0,       2.0);          ( 471139.0, 3750927.4,
      529.8,      543.0,       2.0);
   ( 471160.1, 3750928.8,     530.8,      543.0,       2.0);          ( 471181.1, 3750931.5,
      532.3,      543.0,       2.0);
   ( 471201.7, 3750930.9,     533.3,      543.0,       2.0);          ( 471222.5, 3750931.5,
      533.7,      543.0,       2.0);
   ( 471244.1, 3750931.2,     534.8,      543.0,       2.0);          ( 471264.4, 3750931.7,
      535.7,      538.0,       2.0);
   ( 471284.4, 3750931.7,     536.5,      536.5,       2.0);          ( 471305.8, 3750931.7,
      536.5,      536.5,       2.0);
   ( 471324.7, 3750930.9,     535.8,      535.8,       2.0);          ( 471343.0, 3750930.1,
      534.9,      534.9,       2.0);
   ( 471363.9, 3750929.0,     534.7,      534.7,       2.0);          ( 471382.0, 3750928.8,
      534.8,      534.8,       2.0);
   ( 471400.9, 3750928.2,     535.0,      535.0,       2.0);          ( 471421.1, 3750928.0,
      535.4,      535.4,       2.0);
   ( 471440.6, 3750928.1,     535.6,      535.6,       2.0);          ( 471461.8, 3750927.4,
```

```
            535.7,       535.7,       2.0);
( 471479.8, 3750927.9,      535.9,       535.9,       2.0);          ( 471499.7, 3750927.6,
536.2,       536.2,       2.0);
( 471519.3, 3750928.8,      536.6,       549.0,       2.0);          ( 471537.0, 3750929.6,
538.0,       549.0,       2.0);
( 471556.8, 3750930.9,      539.6,       549.0,       2.0);          ( 471580.7, 3750934.1,
541.7,       549.0,       2.0);
( 471624.0, 3750940.2,      545.0,       549.0,       2.0);          ( 471795.9, 3750950.1,
548.4,       548.4,       2.0);
( 471796.3, 3750967.9,      547.3,       547.3,       2.0);          ( 471796.7, 3750987.2,
545.3,       547.0,       2.0);
( 471797.5, 3751006.8,      542.7,       549.0,       2.0);          ( 471796.7, 3751025.3,
542.0,       547.0,       2.0);
( 471795.9, 3751046.4,      541.1,       541.1,       2.0);          ( 471796.7, 3751073.0,
540.1,       540.1,       2.0);
( 471797.5, 3751143.8,      537.7,       537.7,       2.0);          ( 471833.0, 3751143.8,
537.0,       537.0,       2.0);
( 471867.4, 3751144.0,      534.9,       534.9,       2.0);          ( 471891.0, 3751144.4,
532.9,       532.9,       2.0);
( 471916.6, 3751144.2,      530.9,       530.9,       2.0);          ( 471939.5, 3751144.2,
529.4,       529.4,       2.0);
( 471963.1, 3751144.4,      525.8,       535.0,       2.0);          ( 471984.2, 3751144.0,
524.4,       533.0,       2.0);
( 471999.0, 3751163.4,      525.3,       536.0,       2.0);          ( 472000.2, 3751199.1,
530.8,       530.8,       2.0);
( 471999.8, 3751230.6,      532.9,       532.9,       2.0);          ( 472000.4, 3751251.5,
534.3,       534.3,       2.0);
( 472000.2, 3751281.1,      536.2,       536.2,       2.0);          ( 472002.0, 3751347.9,
537.0,       537.0,       2.0);
( 472036.9, 3751348.5,      536.6,       536.6,       2.0);          ( 472063.1, 3751349.3,
536.5,       536.5,       2.0);
( 472084.6, 3751348.3,      535.8,       535.8,       2.0);          ( 472104.9, 3751348.7,
534.6,       534.6,       2.0);
( 472127.3, 3751348.5,      533.0,       533.0,       2.0);          ( 472150.8, 3751349.7,
531.4,       531.4,       2.0);
( 472171.5, 3751349.5,      530.3,       530.3,       2.0);          ( 472194.1, 3751349.1,
528.2,       531.0,       2.0);
( 472222.6, 3751348.7,      525.4,       536.0,       2.0);          ( 472247.8, 3751349.5,
523.2,       536.0,       2.0);
( 472269.7, 3751349.1,      520.9,       536.0,       2.0);          ( 472290.4, 3751350.3,
520.7,       535.0,       2.0);
( 472313.6, 3751350.5,      520.9,       532.0,       2.0);          ( 472333.8, 3751351.3,
520.6,       532.0,       2.0);
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

                   PAGE 58
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                           *** DISCRETE CARTESIAN RECEPTORS ***
                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
( 472354.8, 3751351.3,      518.5,       532.0,       2.0);          ( 472377.7, 3751351.1,
516.0,       532.0,       2.0);
( 472401.7, 3751351.1,      513.6,       533.0,       2.0);          ( 472425.5, 3751351.8,
511.8,       532.0,       2.0);
( 472445.7, 3751350.7,      511.1,       532.0,       2.0);          ( 472463.2, 3751350.9,
509.4,       532.0,       2.0);
( 472484.1, 3751350.9,      507.3,       532.0,       2.0);          ( 472503.9, 3751351.3,
506.3,       532.0,       2.0);
( 472523.8, 3751351.3,      506.2,       531.0,       2.0);          ( 472543.3, 3751351.3,
506.4,       506.4,       2.0);
( 472563.2, 3751352.2,      506.1,       506.1,       2.0);          ( 472582.6, 3751352.0,
```

```
                505.8,        505.8,        2.0);
( 472601.3, 3751352.0,        505.3,        505.3,        2.0);         ( 472606.8, 3751367.3,
504.3,        504.3,        2.0);
( 472607.6, 3751396.4,        504.2,        504.2,        2.0);         ( 472608.5, 3751432.1,
505.0,        505.0,        2.0);
( 472608.9, 3751462.6,        504.4,        504.4,        2.0);         ( 472609.5, 3751497.1,
505.0,        505.0,        2.0);
( 472610.7, 3751553.8,        505.4,        505.4,        2.0);         ( 472666.0, 3751554.0,
501.3,        501.3,        2.0);
( 472690.4, 3751553.6,        499.8,        499.8,        2.0);         ( 472713.5, 3751554.3,
499.2,        499.2,        2.0);
( 472734.6, 3751554.0,        497.9,        497.9,        2.0);         ( 472759.5, 3751554.0,
496.2,        496.2,        2.0);
( 472781.8, 3751554.5,        494.9,        499.0,        2.0);         ( 472849.8, 3751556.1,
495.4,        495.4,        2.0);
( 472871.8, 3751556.1,        494.9,        494.9,        2.0);         ( 472895.2, 3751555.6,
494.2,        494.2,        2.0);
( 472922.6, 3751555.9,        493.8,        493.8,        2.0);         ( 473092.4, 3751802.3,
486.1,        486.1,        2.0);
( 473204.8, 3751856.8,        481.6,        481.6,        2.0);         ( 472991.2, 3752083.3,
484.1,        484.1,        2.0);
( 473295.1, 3752052.5,        478.7,        478.7,        2.0);         ( 473356.8, 3752050.3,
476.8,        476.8,        2.0);
( 473495.1, 3751996.6,        476.0,        476.0,        2.0);         ( 473486.5, 3751917.7,
475.8,        475.8,        2.0);
( 473392.6, 3752058.2,        475.9,        475.9,        2.0);         ( 473464.3, 3752082.6,
475.2,        475.2,        2.0);
( 473550.3, 3752087.6,        473.0,        473.0,        2.0);         ( 473584.7, 3752089.8,
473.0,        473.0,        2.0);
( 472765.6, 3752474.1,        477.2,        495.0,        2.0);         ( 470432.2, 3750483.9,
532.6,        532.6,        2.0);
( 469244.1, 3754182.8,        471.3,        485.0,        2.0);         ( 469596.8, 3750785.6,
493.4,        493.4,        2.0);
( 470466.5, 3750530.3,        535.0,        535.0,        2.0);         ( 469319.3, 3749244.5,
500.0,        500.0,        2.0);
( 469229.6, 3749502.2,        503.4,        503.4,        2.0);         ( 468465.4, 3749582.3,
490.5,        490.5,        2.0);
( 471438.4, 3750129.8,        539.2,        539.2,        2.0);         ( 471657.5, 3749918.8,
535.4,        535.4,        2.0);
( 471732.9, 3749916.5,        534.7,        534.7,        2.0);         ( 471710.3, 3750132.8,
537.0,        537.0,        2.0);
( 471273.9, 3750119.8,        540.5,        540.5,
2.0);
```

⌐⌐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                            (1=YES; 0=NO)

         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1
         1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
         1   1 1 1 1 1 1 1 1 1 1

```
             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
             1   1 1 1 1 1 1 1 1 1 1
             1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

          NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
          INCLUDED IN THE DATA FILE.

                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                    ***
                                        (METERS/SEC)

                             1.54,   3.09,   5.14,   8.23, 10.80,
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

                    PAGE 60
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:   3171   Upper air station no.:   3190
               Name: UNKNOWN   Name:
               UNKNOWN
               Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS
 WD   HT   REF TA   HT
- -
- - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15   2.40   1.00   2.93
 55.   10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15   2.40   1.00   3.05
 55.   10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15   2.40   1.00   2.45
 74.   10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15   2.40   1.00   2.52
 77.   10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15   2.40   1.00   2.30
 80.   10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15   2.40   1.00   1.93
 79.   10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15   2.40   1.00   1.96
 77.   10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15   2.40   0.53   1.89
 77.   10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15   2.40   0.31   2.10
 81.   10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005 129. 293.   -11.8 0.15   2.40   0.24   1.99
 101.   10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005 369. 611.   -35.6 0.15   2.40   0.21   3.68
```

```
78.    10.1  298.8     2.0
12 01 01   1 12  184.7 0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
68.    10.1  300.4     2.0
12 01 01   1 13  183.9 0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
64.    10.1  302.5     2.0
12 01 01   1 14  156.6 0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
63.    10.1  303.1     2.0
12 01 01   1 15  104.3 0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
62.    10.1  302.5     2.0
12 01 01   1 16   31.8 0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
69.    10.1  300.9     2.0
12 01 01   1 17  -23.3 0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
59.    10.1  297.5     2.0
12 01 01   1 18  -21.5 0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
54.    10.1  295.4     2.0
12 01 01   1 19  -19.3 0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
79.    10.1  292.0     2.0
12 01 01   1 20  -20.7 0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
79.    10.1  292.5     2.0
12 01 01   1 21  -19.7 0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
95.    10.1  290.9     2.0
12 01 01   1 22  -17.6 0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
78.    10.1  290.4     2.0
12 01 01   1 23  -20.3 0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
52.    10.1  289.2     2.0
12 01 01   1 24  -16.4 0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
75.    10.1  288.8     2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR   WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP:  ALL       ***
                             INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                             VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
              VOL11       , VOL12       , VOL13       ,
              VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
              VOL19       , VOL20       , VOL21       ,
              VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
              VOL27       , VOL28       , . . .       ,


                           *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                       ** CONC OF PM_2.5   IN
                       MICROGRAMS/M**3                              **


     X-COORD (M)  Y-COORD (M)        CONC    (YYMMDDHH)           X-COORD (M)  Y-COORD
       (M)        CONC    (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
      472283.74  3752640.98        0.11028  (13100924)             472482.23
      3752398.04      0.14050m (13112124)
      472477.97  3752183.12        0.17869  (13121924)             472148.10
      3752531.53      0.17934  (13100924)
```

472052.12	3752531.22	0.20882	(13100924)	471975.52
3752531.22	0.22132	(13100924)		
471896.06	3752530.90	0.23052	(13100924)	471840.76
3752529.94	0.23252	(13100924)		
471816.60	3752527.08	0.23140	(13100924)	471736.82
3752557.91	0.21809	(13100924)		
471696.59	3752558.87	0.21700	(13100924)	471627.29
3752556.22	0.22218	(13100924)		
471584.60	3752556.76	0.22227	(13100924)	471560.01
3752556.22	0.22063	(13100924)		
471534.35	3752554.87	0.22050	(16010624)	471514.89
3752554.87	0.22073	(16010624)		
471486.79	3752555.68	0.22306	(16010624)	471465.72
3752555.41	0.22435	(16010624)		
471442.21	3752554.98	0.22279	(16010624)	471419.71
3752552.46	0.22456	(16010624)		
471394.22	3752552.91	0.22622	(16010624)	471363.44
3752552.46	0.23072	(16010624)		
471332.68	3752553.31	0.23277	(16010624)	471307.62
3752552.94	0.23424	(16010624)		
471284.05	3752552.70	0.23336	(16010624)	471261.98
3752552.70	0.23226	(16010624)		
471241.90	3752552.70	0.23151	(16010624)	471223.15
3752552.86	0.23101	(16010624)		
471205.90	3752552.86	0.23068	(16010624)	471173.21
3752552.37	0.23081	(16010624)		
471135.70	3752552.53	0.23098	(16010624)	471093.22
3752551.54	0.23256	(16010624)		
471059.37	3752551.70	0.23486	(16010624)	471020.54
3752551.20	0.23515	(16010624)		
470981.05	3752563.65	0.20341	(16010524)	470980.39
3752552.20	0.21927	(16010524)		
470980.06	3752535.61	0.24585	(16010524)	470979.89
3752517.19	0.27940	(16010524)		
470980.06	3752499.76	0.31489	(14121224)	470980.22
3752479.85	0.33976	(14121224)		
470980.39	3752459.44	0.35486	(14121224)	470980.22
3752433.22	0.36705	(14121224)		
470980.06	3752404.02	0.39296	(12121324)	470927.12
3752402.69	0.25463	(14121224)		
470907.87	3752402.69	0.23023	(14121224)	470887.30
3752402.69	0.20919	(14121224)		
470869.71	3752402.03	0.19602	(14121224)	470849.63
3752401.86	0.18243	(14121224)		
470829.39	3752402.19	0.17018	(14121224)	470811.63
3752402.19	0.16061	(14121224)		
470791.55	3752402.53	0.15081	(14121224)	470773.63
3752401.86	0.14305	(14121224)		
470749.24	3752402.19	0.13350	(14121224)	470727.72
3752391.74	0.12737	(14121224)		
470733.04	3752338.97	0.13481	(14121224)	470733.70
3752320.55	0.13662	(14121224)		
470734.20	3752291.01	0.13931	(14121224)	470733.20
3752265.78	0.14196	(15112724)		
470732.87	3752218.81	0.14900	(15112724)	470732.54
3752182.14	0.15384	(15112724)		
470732.37	3752145.29	0.15874	(15112724)	470692.38
3752144.80	0.14367	(15112724)		
470670.14	3752144.46	0.13642	(15112724)	470651.72
3752144.30	0.13092	(15112724)		
470633.46	3752144.13	0.12585	(15112724)	470615.54
3752143.97	0.12122	(15112724)		
470595.95	3752143.30	0.11655	(15112724)	470577.03
3752143.47	0.11227	(15112724)		
470553.63	3752143.47	0.10737	(15112724)	470528.57
3752142.64	0.10261	(15112724)		

```
    470507.99    3752142.80        0.09889  (15112724)            470485.59
    3752142.47        0.09514  (15112724)
    470471.60    3752131.63        0.09383  (15112724)            470471.60
    3752109.21        0.09570  (15112724)
    470471.32    3752085.22        0.09760  (15112724)            470471.46
    3752037.68        0.10126  (15112724)
    470471.74    3752013.00        0.10305  (15112724)            470470.89
    3751987.18        0.10459  (15112724)
    470470.89    3751965.74        0.10587  (15112724)            470470.75
    3751944.44        0.10700  (15112724)
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
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                        PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                            *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                    VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_2.5   IN
                            MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - -
    470470.61   3751924.27   0.10794 (15112724)   470470.47
    3751905.93   0.10867 (15112724)
    470470.89   3751884.06   0.10949 (15112724)   470470.61
    3751864.03   0.10994 (15112724)
    470470.33   3751844.00   0.11020 (15112724)   470470.19
    3751824.53   0.11026 (15112724)
    470470.33   3751805.77   0.11021 (15112724)   470470.33
    3751788.00   0.10998 (15112724)
    470470.33   3751761.19   0.10953 (15112724)   470471.03
    3751741.87   0.10907 (15112724)
    470470.05   3751722.82   0.10803 (15112724)   470470.19
    3751703.36   0.10696 (15112724)
    470470.19   3751683.75   0.10637 (14121624)   470470.33
    3751664.28   0.10587 (14121624)
    470470.33   3751642.41   0.10505 (14121624)   470470.47
    3751621.82   0.10411 (14121624)
    470470.19   3751599.81   0.10405c (14123024)   470470.61
    3751578.79   0.10563c (14123024)
    470469.62   3751555.94   0.10669c (14123024)   470470.05
    3751512.49   0.10855c (14123024)
    470468.64   3751414.59   0.10874c (14123024)   470469.76
    3751385.25   0.10847c (14123024)
    470468.65   3751358.95   0.10729c (14123024)   470462.93
    3751325.56   0.10458c (14123024)
    470461.98   3751310.62   0.10362c (14123024)   470462.61
    3751296.63   0.10346 (13012524)
    470462.61   3751283.28   0.10359 (13012524)   470462.61
    3751269.92   0.10364 (13012524)
```

```
      470462.93   3751254.35   0.10363 (13012524)   470461.98
      3751240.67   0.10348 (13012524)
      470463.25   3751227.64   0.10356 (13012524)   470756.39
      3751290.59   0.20315 (12121324)
      470797.72   3751268.33   0.21631 (12121324)   470891.19
      3751226.38   0.23880 (12121324)
      470940.78   3751191.82   0.23311 (12121324)   471000.61
      3750923.63   0.15005 (12121324)
      471029.26   3750923.63   0.15180 (12121324)   471056.29
      3750923.90   0.15257 (12121324)
      471077.91   3750924.44   0.15239 (12121324)   471097.64
      3750924.44   0.15148 (12121324)
      471118.18   3750924.98   0.14981 (12121324)   471138.99
      3750927.42   0.14861 (12121324)
      471160.07   3750928.77   0.14723 (12121324)   471181.15
      3750931.47   0.14701 (12121324)
      471201.69   3750930.93   0.14558 (12121324)   471222.50
      3750931.47   0.14372 (12121324)
      471244.13   3750931.20   0.14135 (12121324)   471264.40
      3750931.74   0.13888 (12121324)
      471284.40   3750931.74   0.13624 (12121324)   471305.75
      3750931.74   0.13349m (14123124)
      471324.67   3750930.93   0.13281m (14123124)   471343.05
      3750930.12   0.13188m (14123124)
      471363.86   3750929.04   0.12991m (14123124)   471381.96
      3750928.77   0.12756m (14123124)
      471400.88   3750928.23   0.12405m (14123124)   471421.15
      3750927.96   0.11907m (14123124)
      471440.59   3750928.11   0.12065 (15122824)   471461.83
      3750927.45   0.12223 (15122824)
      471479.76   3750927.95   0.12367 (15122824)   471499.68
      3750927.62   0.12485 (15122824)
      471519.26   3750928.78   0.12628 (15122824)   471537.02
      3750929.61   0.12709 (15122824)
      471556.77   3750930.94   0.12777 (15122824)   471580.68
      3750934.09   0.12863 (15122824)
      471624.00   3750940.23   0.12821 (15122824)   471795.90
      3750950.11   0.11022 (15122824)
      471796.29   3750967.88   0.11421 (15122824)   471796.69
      3750987.22   0.11916 (15122824)
      471797.47   3751006.75   0.12470 (15122824)   471796.69
      3751025.30   0.12981 (15122824)
      471795.90   3751046.40   0.13589 (15122824)   471796.69
      3751072.96   0.14357 (15122824)
      471797.47   3751143.85   0.16619 (15122824)   471833.01
      3751143.85   0.15510 (15122824)
      471867.38   3751144.05   0.14586 (15122824)   471891.02
      3751144.44   0.14048 (15122824)
      471916.60   3751144.24   0.13473 (15122824)   471939.45
      3751144.24   0.12957 (15122824)
      471963.08   3751144.44   0.12550 (15122824)   471984.17
      3751144.05   0.12108 (15122824)
```
▨▨ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/26/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        10:54:59


                    PAGE  63
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                       *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                       SOURCE GROUP:  ALL      ***
                          INCLUDING SOURCE(S):    VOL1        , VOL2          ,
                             VOL3         , VOL4          , VOL5          ,
             VOL6        , VOL7         , VOL8          , VOL9          , VOL10        ,
                VOL11        , VOL12         , VOL13           ,

```
          VOL14          , VOL15          , VOL16          , VOL17          , VOL18          ,
          VOL19          , VOL20          , VOL21          ,
          VOL22          , VOL23          , VOL24          , VOL25          , VOL26          ,
          VOL27          , VOL28          ,  . . .          ,

                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF PM_2.5   IN
                              MICROGRAMS/M**3                                        **


     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
       (M)        CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
     471999.02   3751163.38        0.12039  (15122824)              472000.19
     3751199.12        0.12332  (15122824)
     471999.80   3751230.56        0.12750  (15122824)              472000.38
     3751251.46        0.13014  (15122824)
     472000.19   3751281.15        0.13526  (13112024)              472001.95
     3751347.94        0.15410  (13112024)
     472036.90   3751348.52        0.14444  (13112024)              472063.07
     3751349.31        0.13812  (13112024)
     472084.56   3751348.33        0.13337  (13112024)              472104.87
     3751348.72        0.12986  (13112024)
     472127.33   3751348.52        0.12630  (13112024)              472150.76
     3751349.70        0.12322  (13112024)
     472171.47   3751349.50        0.12034  (13112024)              472194.12
     3751349.11        0.11786  (13112024)
     472222.63   3751348.72        0.11518  (13112024)              472247.83
     3751349.50        0.11324  (13112024)
     472269.70   3751349.11        0.11182  (13112024)              472290.40
     3751350.28        0.10995  (13112024)
     472313.64   3751350.48        0.10770  (13112024)              472333.76
     3751351.26        0.10623  (13112024)
     472354.85   3751351.26        0.10555  (13112024)              472377.70
     3751351.06        0.10514  (13112024)
     472401.72   3751351.06        0.10472  (13112024)              472425.55
     3751351.84        0.10335  (13112024)
     472445.67   3751350.67        0.10188  (13112024)              472463.24
     3751350.87        0.10084  (13112024)
     472484.14   3751350.87        0.09952  (13112024)              472503.87
     3751351.26        0.09822  (13112024)
     472523.79   3751351.26        0.09675  (13112024)              472543.32
     3751351.26        0.09525  (13112024)
     472563.24   3751352.24        0.09384  (13112024)              472582.57
     3751352.04        0.09228  (13112024)
     472601.32   3751352.04        0.09081  (13112024)              472606.79
     3751367.27        0.09240  (13112024)
     472607.57   3751396.37        0.09639  (13112024)              472608.55
     3751432.11        0.10184  (13112024)
     472608.94   3751462.58        0.10731  (13112024)              472609.52
     3751497.15        0.11460  (13112024)
     472610.70   3751553.78        0.13077  (13112024)              472665.97
     3751553.98        0.12528  (13112024)
     472690.38   3751553.59        0.12305  (13112024)              472713.50
     3751554.27        0.12154  (13112024)
     472734.64   3751554.04        0.12003  (13112024)              472759.46
     3751554.04        0.11846  (13112024)
     472781.75   3751554.50        0.11721  (13112024)              472849.76
     3751556.11        0.11252  (13112024)
     472871.82   3751556.11        0.11020  (13112024)              472895.25
     3751555.65        0.10732  (13112024)
     472922.60   3751555.88        0.10408  (13112024)              473092.41
     3751802.31        0.20038  (12042324)
     473204.80   3751856.81        0.16204  (13111924)              472991.21
     3752083.31        0.17762m (13112124)
```

```
        473295.12   3752052.49        0.11331m (13112124)                        473356.76
        3752050.34        0.09902  (15042424)
        473495.10   3751996.58        0.08970  (15042424)                        473486.50
        3751917.74        0.09380  (12050124)
        473392.60   3752058.22        0.09334  (13020524)                        473464.28
        3752082.59        0.08619  (13020524)
        473550.29   3752087.61        0.08026  (13020524)                        473584.69
        3752089.76        0.07825  (13020524)
        472765.59   3752474.09        0.10190m (13112124)                        470432.16
        3750483.93        0.08393  (12121324)
        469244.06   3754182.82        0.02038  (16091624)                        469596.75
        3750785.65        0.06882  (13012524)
        470466.55   3750530.27        0.08704  (12121324)                        469319.29
        3749244.53        0.03134  (12010224)
        469229.64   3749502.19        0.03074  (12010324)                        468465.38
        3749582.33        0.04155  (13012524)
        471438.37   3750129.76        0.04170  (16011524)                        471657.54
        3749918.78        0.03887  (15122824)
        471732.91   3749916.52        0.03894  (15122824)                        471710.30
        3750132.80        0.04565  (15122824)
        471273.89   3750119.77        0.03846
        (16011524)
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

              PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                        ** CONC OF PM_2.5   IN
                        MICROGRAMS/M**3   **

                                          DATE
                                                                          NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   0.39296 ON 12121324: AT (470980.06, 3752404.02,
506.00,   506.00,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/26/23
 *** AERMET - VERSION 16216 ***
 ***   ***   10:54:59

              PAGE 65
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)

APPENDIX 5.7:

AERMOD LST MODELING OUTPUTS - OPERATION

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/25/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO\14064 Ops
CO.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

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      LOCATION VOL29         VOLUME     471577.888  3751616.698      529.000
      LOCATION VOL30         VOLUME     471724.580  3751620.663      533.750
      LOCATION VOL31         VOLUME     471941.049  3751865.677      534.600
      LOCATION VOL32         VOLUME     471795.151  3751684.890      537.260
      LOCATION VOL33         VOLUME     471577.888  3751434.325      531.060
      LOCATION VOL34         VOLUME     471389.965  3751431.946      537.260
      LOCATION VOL35         VOLUME     471202.041  3751467.628      526.830
      LOCATION VOL36         VOLUME     471065.657  3751504.895      521.960
      LOCATION VOL37         VOLUME     471656.388  3751514.411      529.480
      LOCATION VOL38         VOLUME     471522.384  3751324.108      529.000
      LOCATION VOL39         VOLUME     471332.874  3751322.522      529.530
      LOCATION VOL40         VOLUME     471282.920  3751321.729      528.170
      LOCATION VOL41         VOLUME     471233.758  3751388.335      528.470
      LOCATION VOL48         VOLUME     471084.506  3752407.221      506.810
** Source Parameters **
      SRCPARAM VOL1          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL2          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL3          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL4          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL5          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL6          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL7          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL8          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL9          0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL10         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL11         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL12         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL13         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL14         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL15         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL16         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL17         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL18         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL19         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL20         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL21         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL22         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL23         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL24         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL25         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL26         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL27         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL28         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL29         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL30         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL31         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL32         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL33         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL34         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL35         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL36         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL37         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL38         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL39         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL40         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL41         0.0909704698     5.000      43.702      1.400
      SRCPARAM VOL48         0.0909704698     5.000      43.702      1.400
      URBANSRC ALL
      SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops CO.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***



    ********   WARNING MESSAGES   ********
 ME W186     146      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ************************************
 *** SETUP Finishes Successfully ***
 ************************************

 ▚▚ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        17:27:45

                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                    ***     MODEL SETUP OPTIONS SUMMARY      ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
```

```
** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =  2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: CO

**Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

**This Run Includes:     42 Source(s);        1 Source Group(s); and     258 Receptor(s)

                with:       0 POINT(s), including
                            0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      42 VOLUME source(s)
                 and:       0 AREA type source(s)
                 and:       0 LINE source(s)
                 and:       0 RLINE/RLINEXT source(s)
                 and:       0 OPENPIT source(s)
                 and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                               ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
CO.err
```

 **File for Summary of Results: 14064 Ops
 CO.sum
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

                    PAGE   2
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                             *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE CATS. (METERS)	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.90970E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.90970E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.90970E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.90970E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.90970E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.90970E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.90970E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.90970E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.90970E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.90970E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.90970E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.90970E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.90970E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.90970E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.90970E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.90970E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.90970E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.90970E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.90970E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.90970E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.90970E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.90970E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40

```
 VOL23              0   0.90970E-01  471280.5 3751807.0  525.0     5.00     43.70    1.40
  YES
 VOL24              0   0.90970E-01  471093.4 3751841.9  515.6     5.00     43.70    1.40
  YES
 VOL25              0   0.90970E-01  470978.4 3751841.9  518.1     5.00     43.70    1.40
  YES
 VOL26              0   0.90970E-01  471014.1 3751654.8  520.4     5.00     43.70    1.40
  YES
 VOL27              0   0.90970E-01  471201.2 3751654.8  525.1     5.00     43.70    1.40
  YES
 VOL28              0   0.90970E-01  471389.2 3751619.1  534.9     5.00     43.70    1.40
  YES
 VOL29              0   0.90970E-01  471577.9 3751616.7  529.0     5.00     43.70    1.40
  YES
 VOL30              0   0.90970E-01  471724.6 3751620.7  533.8     5.00     43.70    1.40
  YES
 VOL31              0   0.90970E-01  471941.0 3751865.7  534.6     5.00     43.70    1.40
  YES
 VOL32              0   0.90970E-01  471795.2 3751684.9  537.3     5.00     43.70    1.40
  YES
 VOL33              0   0.90970E-01  471577.9 3751434.3  531.1     5.00     43.70    1.40
  YES
 VOL34              0   0.90970E-01  471390.0 3751431.9  537.3     5.00     43.70    1.40
  YES
 VOL35              0   0.90970E-01  471202.0 3751467.6  526.8     5.00     43.70    1.40
  YES
 VOL36              0   0.90970E-01  471065.7 3751504.9  522.0     5.00     43.70    1.40
  YES
 VOL37              0   0.90970E-01  471656.4 3751514.4  529.5     5.00     43.70    1.40
  YES
 VOL38              0   0.90970E-01  471522.4 3751324.1  529.0     5.00     43.70    1.40
  YES
 VOL39              0   0.90970E-01  471332.9 3751322.5  529.5     5.00     43.70    1.40
  YES
 VOL40              0   0.90970E-01  471282.9 3751321.7  528.2     5.00     43.70    1.40
  YES
```

 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                                      *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC) URBAN EMISSION RATE SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.90970E-01	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES								
VOL48	0	0.90970E-01	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES								

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 *** AERMET - VERSION 16216 ***
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                                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
 -----------   ----------

  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

              VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
              VOL15   , VOL16   ,

              VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
              VOL23   , VOL24   ,

              VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
              VOL31   , VOL32   ,

              VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
              VOL39   , VOL40   ,

              VOL41   , VOL48   ,
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   ,
 VOL8   ,

             VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
             VOL15   , VOL16   ,

             VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
             VOL23   , VOL24   ,

             VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
             VOL31   , VOL32   ,

             VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
             VOL39   , VOL40   ,

             VOL41   , VOL48   ,
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:27:45

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** DISCRETE CARTESIAN RECEPTORS ***

```
( 472283.7, 3752641.0,    492.6,    492.6,      2.0);        ( 472482.2, 3752398.0,
499.3,      499.3,      2.0);
( 472478.0, 3752183.1,    505.1,    505.1,      2.0);        ( 472148.1, 3752531.5,
495.2,      502.0,      2.0);
( 472052.1, 3752531.2,    499.4,    512.0,      2.0);        ( 471975.5, 3752531.2,
500.5,      514.0,      2.0);
( 471896.1, 3752530.9,    503.4,    513.0,      2.0);        ( 471840.8, 3752529.9,
503.4,      513.0,      2.0);
( 471816.6, 3752527.1,    500.6,    513.0,      2.0);        ( 471736.8, 3752557.9,
501.5,      501.5,      2.0);
( 471696.6, 3752558.9,    500.0,    500.0,      2.0);        ( 471627.3, 3752556.2,
501.9,      512.0,      2.0);
( 471584.6, 3752556.8,    504.5,    507.0,      2.0);        ( 471560.0, 3752556.2,
504.6,      507.0,      2.0);
( 471534.3, 3752554.9,    503.2,    509.0,      2.0);        ( 471514.9, 3752554.9,
502.2,      519.0,      2.0);
( 471486.8, 3752555.7,    503.1,    503.1,      2.0);        ( 471465.7, 3752555.4,
503.1,      503.1,      2.0);
( 471442.2, 3752555.0,    501.3,    505.0,      2.0);        ( 471419.7, 3752552.5,
500.3,      505.0,      2.0);
( 471394.2, 3752552.9,    501.4,    501.4,      2.0);        ( 471363.4, 3752552.5,
503.5,      503.5,      2.0);
( 471332.7, 3752553.3,    505.8,    505.8,      2.0);        ( 471307.6, 3752552.9,
506.9,      506.9,      2.0);
( 471284.0, 3752552.7,    506.2,    506.2,      2.0);        ( 471262.0, 3752552.7,
505.7,      505.7,      2.0);
( 471241.9, 3752552.7,    505.6,    505.6,      2.0);        ( 471223.1, 3752552.9,
505.9,      505.9,      2.0);
( 471205.9, 3752552.9,    506.2,    506.2,      2.0);        ( 471173.2, 3752552.4,
506.5,      506.5,      2.0);
( 471135.7, 3752552.5,    506.1,    506.1,      2.0);        ( 471093.2, 3752551.5,
505.4,      505.4,      2.0);
( 471059.4, 3752551.7,    504.7,    504.7,      2.0);        ( 471020.5, 3752551.2,
503.1,      503.1,      2.0);
( 470981.0, 3752563.6,    502.1,    502.1,      2.0);        ( 470980.4, 3752552.2,
502.5,      502.5,      2.0);
( 470980.1, 3752535.6,    503.0,    503.0,      2.0);        ( 470979.9, 3752517.2,
503.7,      503.7,      2.0);
( 470980.1, 3752499.8,    504.0,    504.0,      2.0);        ( 470980.2, 3752479.8,
504.0,      504.0,      2.0);
( 470980.4, 3752459.4,    504.6,    504.6,      2.0);        ( 470980.2, 3752433.2,
505.4,      505.4,      2.0);
( 470980.1, 3752404.0,    506.0,    506.0,      2.0);        ( 470927.1, 3752402.7,
504.9,      504.9,      2.0);
( 470907.9, 3752402.7,    503.1,    503.1,      2.0);        ( 470887.3, 3752402.7,
500.9,      505.0,      2.0);
( 470869.7, 3752402.0,    500.7,    500.7,      2.0);        ( 470849.6, 3752401.9,
500.3,      500.3,      2.0);
( 470829.4, 3752402.2,    500.0,    500.0,      2.0);        ( 470811.6, 3752402.2,
499.7,      499.7,      2.0);
( 470791.5, 3752402.5,    499.2,    499.2,      2.0);        ( 470773.6, 3752401.9,
498.6,      498.6,      2.0);
( 470749.2, 3752402.2,    497.8,    497.8,      2.0);        ( 470727.7, 3752391.7,
497.8,      497.8,      2.0);
( 470733.0, 3752339.0,    499.9,    499.9,      2.0);        ( 470733.7, 3752320.5,
500.2,      500.2,      2.0);
( 470734.2, 3752291.0,    500.8,    500.8,      2.0);        ( 470733.2, 3752265.8,
500.8,      500.8,      2.0);
( 470732.9, 3752218.8,    501.2,    501.2,      2.0);        ( 470732.5, 3752182.1,
501.8,      501.8,      2.0);
( 470732.4, 3752145.3,    503.0,    503.0,      2.0);        ( 470692.4, 3752144.8,
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( 470670.1, 3752144.5,    502.1,    502.1,      2.0);        ( 470651.7, 3752144.3,
```

```
                502.0,       502.0,        2.0);
( 470633.5, 3752144.1,       501.5,       501.5,        2.0);          ( 470615.5, 3752144.0,
500.9,       500.9,        2.0);
( 470596.0, 3752143.3,       500.2,       500.2,        2.0);          ( 470577.0, 3752143.5,
500.0,       500.0,        2.0);
( 470553.6, 3752143.5,       499.7,       499.7,        2.0);          ( 470528.6, 3752142.6,
498.8,       498.8,        2.0);
( 470508.0, 3752142.8,       497.6,       497.6,        2.0);          ( 470485.6, 3752142.5,
496.3,       496.3,        2.0);
( 470471.6, 3752131.6,       496.1,       496.1,        2.0);          ( 470471.6, 3752109.2,
497.3,       497.3,        2.0);
( 470471.3, 3752085.2,       498.1,       498.1,        2.0);          ( 470471.5, 3752037.7,
499.7,       499.7,        2.0);
( 470471.7, 3752013.0,       500.0,       500.0,        2.0);          ( 470470.9, 3751987.2,
500.1,       500.1,        2.0);
( 470470.9, 3751965.7,       500.1,       500.1,        2.0);          ( 470470.8, 3751944.4,
500.1,       500.1,        2.0);
( 470470.6, 3751924.3,       499.6,       499.6,        2.0);          ( 470470.5, 3751905.9,
499.0,       499.0,        2.0);
( 470470.9, 3751884.1,       499.1,       499.1,        2.0);          ( 470470.6, 3751864.0,
498.6,       498.6,        2.0);
( 470470.3, 3751844.0,       497.9,       497.9,        2.0);          ( 470470.2, 3751824.5,
496.6,       496.6,        2.0);
( 470470.3, 3751805.8,       495.7,       499.0,        2.0);          ( 470470.3, 3751788.0,
495.1,       502.0,        2.0);
( 470470.3, 3751761.2,       497.6,       497.6,        2.0);          ( 470471.0, 3751741.9,
499.5,       499.5,        2.0);
```

███ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                            *** DISCRETE CARTESIAN RECEPTORS ***
                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)


( 470470.0, 3751722.8,       501.4,       501.4,        2.0);          ( 470470.2, 3751703.4,
503.3,       503.3,        2.0);
( 470470.2, 3751683.8,       504.9,       504.9,        2.0);          ( 470470.3, 3751664.3,
506.2,       506.2,        2.0);
( 470470.3, 3751642.4,       507.6,       507.6,        2.0);          ( 470470.5, 3751621.8,
508.5,       508.5,        2.0);
( 470470.2, 3751599.8,       509.0,       509.0,        2.0);          ( 470470.6, 3751578.8,
509.1,       509.1,        2.0);
( 470469.6, 3751555.9,       507.6,       507.6,        2.0);          ( 470470.0, 3751512.5,
504.8,       512.0,        2.0);
( 470468.6, 3751414.6,       501.8,       513.0,        2.0);          ( 470469.8, 3751385.2,
507.1,       513.0,        2.0);
( 470468.6, 3751358.9,       509.6,       509.6,        2.0);          ( 470462.9, 3751325.6,
511.9,       511.9,        2.0);
( 470462.0, 3751310.6,       512.6,       512.6,        2.0);          ( 470462.6, 3751296.6,
512.4,       512.4,        2.0);
( 470462.6, 3751283.3,       512.0,       512.0,        2.0);          ( 470462.6, 3751269.9,
511.1,       511.1,        2.0);
( 470462.9, 3751254.3,       509.6,       512.0,        2.0);          ( 470462.0, 3751240.7,
508.9,       508.9,        2.0);
( 470463.2, 3751227.6,       509.4,       509.4,        2.0);          ( 470756.4, 3751290.6,
507.7,       525.0,        2.0);
( 470797.7, 3751268.3,       507.7,       525.0,        2.0);          ( 470891.2, 3751226.4,
512.0,       512.0,        2.0);
( 470940.8, 3751191.8,       512.1,       512.1,        2.0);          ( 471000.6, 3750923.6,
523.8,       523.8,        2.0);
( 471029.3, 3750923.6,       523.7,       523.7,        2.0);          ( 471056.3, 3750923.9,
```

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                  524.2,       542.0,        2.0);
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  525.7,       543.0,        2.0);
( 471118.2, 3750925.0,        528.0,       543.0,        2.0);         ( 471139.0, 3750927.4,
  529.8,       543.0,        2.0);
( 471160.1, 3750928.8,        530.8,       543.0,        2.0);         ( 471181.1, 3750931.5,
  532.3,       543.0,        2.0);
( 471201.7, 3750930.9,        533.3,       543.0,        2.0);         ( 471222.5, 3750931.5,
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( 471244.1, 3750931.2,        534.8,       543.0,        2.0);         ( 471264.4, 3750931.7,
  535.7,       538.0,        2.0);
( 471284.4, 3750931.7,        536.5,       536.5,        2.0);         ( 471305.8, 3750931.7,
  536.5,       536.5,        2.0);
( 471324.7, 3750930.9,        535.8,       535.8,        2.0);         ( 471343.0, 3750930.1,
  534.9,       534.9,        2.0);
( 471363.9, 3750929.0,        534.7,       534.7,        2.0);         ( 471382.0, 3750928.8,
  534.8,       534.8,        2.0);
( 471400.9, 3750928.2,        535.0,       535.0,        2.0);         ( 471421.1, 3750928.0,
  535.4,       535.4,        2.0);
( 471440.6, 3750928.1,        535.6,       535.6,        2.0);         ( 471461.8, 3750927.4,
  535.7,       535.7,        2.0);
( 471479.8, 3750927.9,        535.9,       535.9,        2.0);         ( 471499.7, 3750927.6,
  536.2,       536.2,        2.0);
( 471519.3, 3750928.8,        536.6,       549.0,        2.0);         ( 471537.0, 3750929.6,
  538.0,       549.0,        2.0);
( 471556.8, 3750930.9,        539.6,       549.0,        2.0);         ( 471580.7, 3750934.1,
  541.7,       549.0,        2.0);
( 471624.0, 3750940.2,        545.0,       549.0,        2.0);         ( 471795.9, 3750950.1,
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( 471796.3, 3750967.9,        547.3,       547.3,        2.0);         ( 471796.7, 3750987.2,
  545.3,       547.0,        2.0);
( 471797.5, 3751006.8,        542.7,       549.0,        2.0);         ( 471796.7, 3751025.3,
  542.0,       547.0,        2.0);
( 471795.9, 3751046.4,        541.1,       541.1,        2.0);         ( 471796.7, 3751073.0,
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( 471797.5, 3751143.8,        537.7,       537.7,        2.0);         ( 471833.0, 3751143.8,
  537.0,       537.0,        2.0);
( 471867.4, 3751144.0,        534.9,       534.9,        2.0);         ( 471891.0, 3751144.4,
  532.9,       532.9,        2.0);
( 471916.6, 3751144.2,        530.9,       530.9,        2.0);         ( 471939.5, 3751144.2,
  529.4,       529.4,        2.0);
( 471963.1, 3751144.4,        525.8,       535.0,        2.0);         ( 471984.2, 3751144.0,
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( 471999.0, 3751163.4,        525.3,       536.0,        2.0);         ( 472000.2, 3751199.1,
  530.8,       530.8,        2.0);
( 471999.8, 3751230.6,        532.9,       532.9,        2.0);         ( 472000.4, 3751251.5,
  534.3,       534.3,        2.0);
( 472000.2, 3751281.1,        536.2,       536.2,        2.0);         ( 472002.0, 3751347.9,
  537.0,       537.0,        2.0);
( 472036.9, 3751348.5,        536.6,       536.6,        2.0);         ( 472063.1, 3751349.3,
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( 472084.6, 3751348.3,        535.8,       535.8,        2.0);         ( 472104.9, 3751348.7,
  534.6,       534.6,        2.0);
( 472127.3, 3751348.5,        533.0,       533.0,        2.0);         ( 472150.8, 3751349.7,
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( 472171.5, 3751349.5,        530.3,       530.3,        2.0);         ( 472194.1, 3751349.1,
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( 472269.7, 3751349.1,        520.9,       536.0,        2.0);         ( 472290.4, 3751350.3,
  520.7,       535.0,        2.0);
( 472313.6, 3751350.5,        520.9,       532.0,        2.0);         ( 472333.8, 3751351.3,
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                                         *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

```
( 472354.8, 3751351.3,     518.5,      532.0,       2.0);      ( 472377.7, 3751351.1,
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506.4,       506.4,       2.0);
( 472563.2, 3751352.2,     506.1,      506.1,       2.0);      ( 472582.6, 3751352.0,
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( 472601.3, 3751352.0,     505.3,      505.3,       2.0);      ( 472606.8, 3751367.3,
504.3,       504.3,       2.0);
( 472607.6, 3751396.4,     504.2,      504.2,       2.0);      ( 472608.5, 3751432.1,
505.0,       505.0,       2.0);
( 472608.9, 3751462.6,     504.4,      504.4,       2.0);      ( 472609.5, 3751497.1,
505.0,       505.0,       2.0);
( 472610.7, 3751553.8,     505.4,      505.4,       2.0);      ( 472666.0, 3751554.0,
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( 472690.4, 3751553.6,     499.8,      499.8,       2.0);      ( 472713.5, 3751554.3,
499.2,       499.2,       2.0);
( 472734.6, 3751554.0,     497.9,      497.9,       2.0);      ( 472759.5, 3751554.0,
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( 472781.8, 3751554.5,     494.9,      499.0,       2.0);      ( 472849.8, 3751556.1,
495.4,       495.4,       2.0);
( 472871.8, 3751556.1,     494.9,      494.9,       2.0);      ( 472895.2, 3751555.6,
494.2,       494.2,       2.0);
( 472922.6, 3751555.9,     493.8,      493.8,       2.0);      ( 473092.4, 3751802.3,
486.1,       486.1,       2.0);
( 473204.8, 3751856.8,     481.6,      481.6,       2.0);      ( 472991.2, 3752083.3,
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( 473295.1, 3752052.5,     478.7,      478.7,       2.0);      ( 473356.8, 3752050.3,
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( 473495.1, 3751996.6,     476.0,      476.0,       2.0);      ( 473486.5, 3751917.7,
475.8,       475.8,       2.0);
( 473392.6, 3752058.2,     475.9,      475.9,       2.0);      ( 473464.3, 3752082.6,
475.2,       475.2,       2.0);
( 473550.3, 3752087.6,     473.0,      473.0,       2.0);      ( 473584.7, 3752089.8,
473.0,       473.0,       2.0);
( 472765.6, 3752474.1,     477.2,      495.0,       2.0);      ( 470432.2, 3750483.9,
532.6,       532.6,       2.0);
( 469244.1, 3754182.8,     471.3,      485.0,       2.0);      ( 469596.8, 3750785.6,
493.4,       493.4,       2.0);
( 470466.5, 3750530.3,     535.0,      535.0,       2.0);      ( 469319.3, 3749244.5,
500.0,       500.0,       2.0);
( 469229.6, 3749502.2,     503.4,      503.4,       2.0);      ( 468465.4, 3749582.3,
490.5,       490.5,       2.0);
( 471438.4, 3750129.8,     539.2,      539.2,       2.0);      ( 471657.5, 3749918.8,
535.4,       535.4,       2.0);
( 471732.9, 3749916.5,     534.7,      534.7,       2.0);      ( 471710.3, 3750132.8,
537.0,       537.0,       2.0);
( 471273.9, 3750119.8,     540.5,      540.5,       2.0);      ( 470973.4, 3752300.8,
503.8,       503.8,       2.0);
( 470974.0, 3752278.4,     504.4,      504.4,       2.0);      ( 470974.0, 3752235.6,
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       ( 470962.5, 3752110.5,       510.8,       510.8,         2.0);          ( 470952.6, 3752077.1,
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       ( 470935.3, 3752029.1,       508.7,       512.0,         2.0);          ( 470922.3, 3751998.9,
          506.1,       511.0,          2.0);
       ( 470910.3, 3751966.5,       508.0,       508.0,         2.0);          ( 470891.5, 3751915.4,
          510.8,       510.8,          2.0);
       ( 470880.6, 3751877.9,       512.3,       512.3,         2.0);          ( 470874.8, 3751848.1,
          513.4,       517.0,          2.0);
       ( 470871.7, 3751810.6,       517.1,       517.1,         2.0);          ( 470871.2, 3751779.3,
          517.1,       517.1,          2.0);
       ( 470872.2, 3751740.7,       515.6,       515.6,         2.0);          ( 470876.4, 3751710.4,
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          516.8,       516.8,          2.0);
       ( 470911.9, 3751582.7,       518.5,       518.5,         2.0);          ( 470919.7, 3751556.1,
          518.3,       518.3,          2.0);
       ( 470931.2, 3751524.2,       516.9,       516.9,         2.0);          ( 470940.0, 3751496.6,
          515.6,       515.6,          2.0);
       ( 470951.5, 3751461.1,       514.4,       514.4,         2.0);          ( 470962.0, 3751424.6,
          513.8,       513.8,          2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

                    PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

          NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
          INCLUDED IN THE DATA FILE.

                              *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                              ***
                                              (METERS/SEC)

                               1.54,   3.09,   5.14,   8.23,   10.80,
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45
                    PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***
```

```
   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                                        Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:    3171              Upper air station no.:    3190
               Name: UNKNOWN                               Name:
               UNKNOWN
               Year:   2012                                Year:   2012

 First 24 hours of scalar data
 YR MO DY JDY HR      H0      U*      W*   DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN ALBEDO  REF WS
    WD     HT   REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.     77.9  0.15   2.40   1.00    2.93
 55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.     84.7  0.15   2.40   1.00    3.05
 55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.     53.5  0.15   2.40   1.00    2.45
 74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.     56.8  0.15   2.40   1.00    2.52
 77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.     46.8  0.15   2.40   1.00    2.30
 80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.     32.1  0.15   2.40   1.00    1.93
 79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.     33.2  0.15   2.40   1.00    1.96
 77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.     36.1  0.15   2.40   0.53    1.89
 77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.    -28.1  0.15   2.40   0.31    2.10
 81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.    -11.8  0.15   2.40   0.24    1.99
 101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.    -35.6  0.15   2.40   0.21    3.68
 78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.    -18.4  0.15   2.40   0.20    2.89
 68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.    -14.2  0.15   2.40   0.20    2.57
 64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.    -29.5  0.15   2.40   0.22    3.37
 63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.    -47.2  0.15   2.40   0.25    3.59
 62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.   -145.8  0.15   2.40   0.34    3.76
 69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.     84.0  0.15   2.40   0.62    3.03
 59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.     57.8  0.15   2.40   1.00    2.54
 54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15   2.40   1.00    2.27
 79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15   2.40   1.00    2.42
 79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15   2.40   1.00    2.30
 95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15   2.40   1.00    2.13
```

```
78.   10.1  290.4    2.0
12 01 01   1 23  -20.3  0.211 -9.000 -9.000  -999.  233.     49.0  0.15   2.40   1.00     2.35
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000  -999.  189.     37.0  0.15   2.40   1.00     2.06
75.   10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

F indicates top of profile (=1) or below (=0)
▉▉ *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***        17:27:45


                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*


                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     VOL1        , VOL2        ,
                                VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
                VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                VOL19       , VOL20       , VOL21       ,
                VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                VOL27       , VOL28       ,  . . .      ,


                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                      ** CONC OF CO        IN
                      MICROGRAMS/M**3                                  **


    X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)            X-COORD (M)  Y-COORD
     (M)         CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       472283.74  3752640.98      19.54179  (14051521)            472482.23
       3752398.04      17.93731  (12041107)
       472477.97  3752183.12      17.90996  (15092020)            472148.10
       3752531.53      36.42920  (13112916)
       472052.12  3752531.22      43.64128  (13112916)            471975.52
       3752531.22      33.10275  (13112916)
       471896.06  3752530.90      35.16049  (13062606)            471840.76
       3752529.94      36.17210  (13062606)
       471816.60  3752527.08      36.58163  (13062606)            471736.82
       3752557.91      34.88837  (13112916)
       471696.59  3752558.87      38.01401  (13112916)            471627.29
       3752556.22      37.12099  (13112916)
       471584.60  3752556.76      37.86691  (13062606)            471560.01
       3752556.22      38.02832  (13062606)
       471534.35  3752554.87      37.94624  (13062606)            471514.89
       3752554.87      37.63196  (13062606)
       471486.79  3752555.68      37.36405  (13062606)            471465.72
       3752555.41      37.18126  (13062606)
       471442.21  3752554.98      36.77711  (13062606)            471419.71
       3752552.46      36.78715  (13062606)
       471394.22  3752552.91      36.68334  (13062606)            471363.44
       3752552.46      36.78205  (13062606)
       471332.68  3752553.31      36.65476  (13062606)            471307.62
       3752552.94      36.59906  (13062606)
       471284.05  3752552.70      36.41891  (13062606)            471261.98
       3752552.70      36.29362  (13062606)
```

```
   471241.90    3752552.70       36.25243   (13062606)              471223.15
   3752552.86      36.25321   (13062606)
   471205.90    3752552.86       36.28216   (13062606)              471173.21
   3752552.37      36.35999   (13062606)
   471135.70    3752552.53       36.02379   (13062606)              471093.22
   3752551.54      35.12487   (15100406)
   471059.37    3752551.70       35.26024   (15062802)              471020.54
   3752551.20      32.94297   (15062802)
   470981.05    3752563.65       29.27296   (13083019)              470980.39
   3752552.20      30.30081   (13083019)
   470980.06    3752535.61       31.83936   (13083019)              470979.89
   3752517.19      33.54954   (13083019)
   470980.06    3752499.76       35.03019   (13083019)              470980.22
   3752479.85      37.12539   (14090307)
   470980.39    3752459.44       42.53923   (14090307)              470980.22
   3752433.22      45.90192   (14090307)
   470980.06    3752404.02       45.07978   (13062606)              470927.12
   3752402.69      33.43832   (13062606)
   470907.87    3752402.69       30.74682   (13062606)              470887.30
   3752402.69      28.35143   (13062606)
   470869.71    3752402.03       26.74264   (13062606)              470849.63
   3752401.86      25.12842   (13062606)
   470829.39    3752402.19       23.69473   (13062606)              470811.63
   3752402.19      22.58277   (13062606)
   470791.55    3752402.53       21.43795   (13062606)              470773.63
   3752401.86      20.52948   (15042903)
   470749.24    3752402.19       19.60272   (15042903)              470727.72
   3752391.74      19.00411   (15042903)
   470733.04    3752338.97       19.93462   (13062606)              470733.70
   3752320.55      20.28972   (13062606)
   470734.20    3752291.01       20.83045   (13062606)              470733.20
   3752265.78      21.18625   (13062606)
   470732.87    3752218.81       21.90617   (13062606)              470732.54
   3752182.14      22.45234   (13062606)
   470732.37    3752145.29       23.02342   (13062606)              470692.38
   3752144.80      20.97367   (13062606)
   470670.14    3752144.46       19.95881   (13062606)              470651.72
   3752144.30      19.18718   (13062606)
   470633.46    3752144.13       18.45346   (13062606)              470615.54
   3752143.97      17.77542   (13062606)
   470595.95    3752143.30       17.08324   (13062606)              470577.03
   3752143.47      16.53886   (14091620)
   470553.63    3752143.47       16.09272   (15071822)              470528.57
   3752142.64      15.64468   (15071820)
   470507.99    3752142.80       15.25285   (15071820)              470485.59
   3752142.47      14.84548   (15071820)
   470471.60    3752131.63       14.69424   (15071820)              470471.60
   3752109.21      14.88077   (15071820)
   470471.32    3752085.22       15.04311   (15071820)              470471.46
   3752037.68      15.39331   (15071822)
   470471.74    3752013.00       15.54677   (12010420)              470470.89
   3751987.18      15.66186   (16111021)
   470470.89    3751965.74       15.78816   (16111021)              470470.75
   3751944.44      15.89708   (16111021)
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                      SOURCE GROUP: ALL   ***
                          INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                          VOL3   , VOL4   , VOL5   ,

```
           VOL6            , VOL7            , VOL8            , VOL9            , VOL10          ,
           VOL11           , VOL12           , VOL13           ,
           VOL14           , VOL15           , VOL16           , VOL17           , VOL18          ,
           VOL19           , VOL20           , VOL21           ,
           VOL22           , VOL23           , VOL24           , VOL25           , VOL26          ,
           VOL27           , VOL28           ,   . . .         ,
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                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                      ** CONC OF CO   IN
                         MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
     470470.61   3751924.27   15.95225 (16111021)   470470.47
     3751905.93   15.96943 (16111021)
     470470.89   3751884.06   16.06873 (16110919)   470470.61
     3751864.03   16.12659 (16110919)
     470470.33   3751844.00   16.13246 (16110919)   470470.19
     3751824.53   16.06909 (16110919)
     470470.33   3751805.77   16.04891 (16110818)   470470.33
     3751788.00   16.02983 (16110818)
     470470.33   3751761.19   16.30062 (16110818)   470471.03
     3751741.87   16.49749 (16110818)
     470470.05   3751722.82   16.63798 (16110818)   470470.19
     3751703.36   16.85069 (14051420)
     470470.19   3751683.75   17.05550 (14051420)   470470.33
     3751664.28   17.21852 (14051420)
     470470.33   3751642.41   17.37250 (14051420)   470470.47
     3751621.82   17.45578 (14051420)
     470470.19   3751599.81   17.48008 (14051420)   470470.61
     3751578.79   17.46399 (14051420)
     470469.62   3751555.94   17.28407 (14051420)   470470.05
     3751512.49   16.90120 (14051420)
     470468.64   3751414.59   16.12887 (16062003)   470469.76
     3751385.25   16.49452 (16062003)
     470468.65   3751358.95   16.55779 (16062003)   470462.93
     3751325.56   16.43771 (16062003)
     470461.98   3751310.62   16.38880 (13050223)   470462.61
     3751296.63   16.33313 (13050223)
     470462.61   3751283.28   16.24612 (13050223)   470462.61
     3751269.92   16.12557 (13050223)
     470462.93   3751254.35   15.97313 (13050223)   470461.98
     3751240.67   15.83245 (13050223)
     470463.25   3751227.64   15.78536 (13050223)   470756.39
     3751290.59   21.67011 (14100421)
     470797.72   3751268.33   22.43532 (14100421)   470891.19
     3751226.38   25.00237 (13083002)
     470940.78   3751191.82   25.96543 (15090923)   471000.61
     3750923.63   23.28974 (15031222)
     471029.26   3750923.63   23.52206 (15031222)   471056.29
     3750923.90   24.49825 (14072222)
     471077.91   3750924.44   25.33190 (14072222)   471097.64
     3750924.44   27.79228 (14072222)
     471118.18   3750924.98   30.75083 (15073004)   471138.99
     3750927.42   33.80267 (14070703)
     471160.07   3750928.77   36.53899 (14070703)   471181.15
     3750931.47   41.78637 (12111622)
     471201.69   3750930.93   44.68200 (12111622)   471222.50
     3750931.47   45.93668 (15102720)
     471244.13   3750931.20   48.31705 (15102720)   471264.40
     3750931.74   50.18672 (15102720)
     471284.40   3750931.74   51.47455 (13090322)   471305.75
     3750931.74   52.16890 (13090322)

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       471324.67    3750930.93        50.89123  (13090322)           471343.05
       3750930.12        49.49507  (13070301)
       471363.86    3750929.04        48.42773  (14092602)           471381.96
       3750928.77        48.10499  (14092602)
       471400.88    3750928.23        48.04245  (15091223)           471421.15
       3750927.96        47.79037  (15091223)
       471440.59    3750928.11        47.08370  (12091920)           471461.83
       3750927.45        46.29840  (12091920)
       471479.76    3750927.95        45.68316  (13090522)           471499.68
       3750927.62        45.24340  (13090522)
       471519.26    3750928.78        44.75841  (13090522)           471537.02
       3750929.61        45.55741  (13090522)
       471556.77    3750930.94        45.70419  (13090522)           471580.68
       3750934.09        47.64403  (13090522)
       471624.00    3750940.23        48.67686  (13090322)           471795.90
       3750950.11        46.80729  (14070402)
       471796.29    3750967.88        47.31165  (14070402)           471796.69
       3750987.22        47.55852  (15100222)
       471797.47    3751006.75        47.05793  (15100222)           471796.69
       3751025.30        47.20756  (15100222)
       471795.90    3751046.40        47.53018  (12092021)           471796.69
       3751072.96        47.58784  (12092021)
       471797.47    3751143.85        47.37167  (12092021)           471833.01
       3751143.85        44.42073  (12092021)
       471867.38    3751144.05        39.70546  (12081722)           471891.02
       3751144.44        33.20142  (12081722)
       471916.60    3751144.24        26.78497  (12081621)           471939.45
       3751144.24        25.17262  (14083024)
       471963.08    3751144.44        23.50389  (15041821)           471984.17
       3751144.05        22.94666  (15041821)
```

                     PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                VOL3   , VOL4   , VOL5   ,
                VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                VOL11   , VOL12   , VOL13   ,
                VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                VOL19   , VOL20   , VOL21   ,
                VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                VOL27   , VOL28   , . . .   ,

                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF CO   IN
                          MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
       471999.02   3751163.38   22.95533 (15041821)   472000.19
       3751199.12   25.64909 (15092721)
       471999.80   3751230.56   31.04491 (16061922)   472000.38
       3751251.46   34.84340 (16061922)
       472000.19   3751281.15   37.21482 (14091022)   472001.95
       3751347.94   41.08242 (12080621)
       472036.90   3751348.52   37.10473 (12080624)   472063.07
       3751349.31   35.54624 (12080524)

472084.56	3751348.33	33.90449	(13063022)	472104.87
3751348.72	31.75503	(13082222)		
472127.33	3751348.52	28.41210	(12081422)	472150.76
3751349.70	25.06713	(14091223)		
472171.47	3751349.50	23.39942	(12081622)	472194.12
3751349.11	22.63768	(15081620)		
472222.63	3751348.72	21.56582	(16082920)	472247.83
3751349.50	20.64983	(16082920)		
472269.70	3751349.11	19.42026	(16082920)	472290.40
3751350.28	19.03194	(16082920)		
472313.64	3751350.48	18.62944	(16082920)	472333.76
3751351.26	18.24503	(16082920)		
472354.85	3751351.26	17.41549	(16082920)	472377.70
3751351.06	16.69706	(16082920)		
472401.72	3751351.06	15.94273	(16081620)	472425.55
3751351.84	15.05168	(15102418)		
472445.67	3751350.67	14.79737	(15102418)	472463.24
3751350.87	14.37845	(15102418)		
472484.14	3751350.87	14.04459	(15102418)	472503.87
3751351.26	13.79972	(15102418)		
472523.79	3751351.26	13.61121	(15102418)	472543.32
3751351.26	13.44313	(15102418)		
472563.24	3751352.24	13.24816	(15102418)	472582.57
3751352.04	13.05478	(15102418)		
472601.32	3751352.04	12.86379	(15102418)	472606.79
3751367.27	12.81498	(15091321)		
472607.57	3751396.37	12.94860	(15091321)	472608.55
3751432.11	13.14548	(15070221)		
472608.94	3751462.58	13.25923	(15070221)	472609.52
3751497.15	13.45767	(14072920)		
472610.70	3751553.78	13.81523	(12080920)	472665.97
3751553.98	13.07313	(12080920)		
472690.38	3751553.59	12.77413	(12080920)	472713.50
3751554.27	12.55548	(12080920)		
472734.64	3751554.04	12.31715	(12080920)	472759.46
3751554.04	12.03744	(12080920)		
472781.75	3751554.50	11.80975	(12080920)	472849.76
3751556.11	11.35815	(12080920)		
472871.82	3751556.11	11.18284	(12080920)	472895.25
3751555.65	10.98944	(12080920)		
472922.60	3751555.88	10.79411	(12080920)	473092.41
3751802.31	9.92667	(13082619)		
473204.80	3751856.81	9.27888	(13082920)	472991.21
3752083.31	10.74577	(16082919)		
473295.12	3752052.49	8.77172	(13090121)	473356.76
3752050.34	8.43136	(12080821)		
473495.10	3751996.58	7.85741	(13070920)	473486.50
3751917.74	7.87355	(13082920)		
473392.60	3752058.22	8.25739	(13090121)	473464.28
3752082.59	7.96145	(13090121)		
473550.29	3752087.61	7.57724	(13090121)	473584.69
3752089.76	7.45433	(13090121)		
472765.59	3752474.09	12.13652	(16062023)	470432.16
3750483.93	21.16453	(16100620)		
469244.06	3754182.82	4.63324	(14091624)	469596.75
3750785.65	7.85001	(15021122)		
470466.55	3750530.27	24.21045	(12091321)	469319.29
3749244.53	4.84539	(15100924)		
469229.64	3749502.19	5.12509	(15031221)	468465.38
3749582.33	4.17248	(14051321)		
471438.37	3750129.76	27.04177	(16102220)	471657.54
3749918.78	20.20948	(14092602)		
471732.91	3749916.52	19.17931	(15091223)	471710.30
3750132.80	23.77888	(15091223)		
471273.89	3750119.77	28.38217	(15073004)	470973.43
3752300.84	45.25334	(13062606)		

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      470973.95    3752278.41      46.30770  (13062606)            470973.95
      3752235.65      48.25964  (13062606)
      470971.86    3752174.63      48.98005  (13062606)            470967.17
      3752139.16      48.88250  (13062606)
      470962.47    3752110.48      49.26142  (13062606)            470952.57
      3752077.10      49.22809  (13062606)
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:27:45

                 PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                      ** CONC OF CO   IN
                      MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - -
      470935.35   3752029.11   47.75450 (13062606)   470922.32
      3751998.86   46.41953 (13062606)
      470910.32   3751966.53   46.85210 (13062606)   470891.54
      3751915.42   48.76684 (13062606)
      470880.59   3751877.86   49.99204 (13062606)   470874.85
      3751848.14   49.94406 (13062606)
      470871.72   3751810.58   48.82467 (13062606)   470871.20
      3751779.29   47.12498 (13062606)
      470872.25   3751740.70   45.44504 (13062606)   470876.42
      3751710.45   45.28876 (13062606)
      470884.76   3751671.85   46.23739 (13062606)   470900.41
      3751616.57   48.04493 (13062606)
      470911.88   3751582.67   48.37500 (13062606)   470919.71
      3751556.07   47.84731 (13062606)
      470931.18   3751524.25   47.72218 (13062606)   470940.05
      3751496.61   47.34731 (13062606)
      470951.52   3751461.14   46.25973 (13062606)   470961.95
      3751424.64   43.87120 (13041207)

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:27:45

                 PAGE 15
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,

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          VOL14        , VOL15        , VOL16        , VOL17        , VOL18        ,
          VOL19        , VOL20        , VOL21        ,
          VOL22        , VOL23        , VOL24        , VOL25        , VOL26        ,
          VOL27        , VOL28        ,  . . .       ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF CO   IN
MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	13.79534	(15111008)	472482.23	3752398.04	12.44817m	(16031408)
472477.97	3752183.12	15.15695m	(12050224)	472148.10	3752531.53	20.00643c	(12121708)
472052.12	3752531.22	25.24387c	(12121708)	471975.52	3752531.22	28.34074c	(12121708)
471896.06	3752530.90	30.14517c	(12121708)	471840.76	3752529.94	31.01059c	(12121708)
471816.60	3752527.08	31.33249c	(12121708)	471736.82	3752557.91	29.51367c	(12121708)
471696.59	3752558.87	29.97483c	(12121708)	471627.29	3752556.22	31.75648c	(12121708)
471584.60	3752556.76	32.46446c	(12121708)	471560.01	3752556.22	32.60409c	(12121708)
471534.35	3752554.87	32.52308c	(12121708)	471514.89	3752554.87	32.24668c	(12121708)
471486.79	3752555.68	32.02980c	(12121708)	471465.72	3752555.41	31.87633c	(12121708)
471442.21	3752554.98	31.51781c	(12121708)	471419.71	3752552.46	31.51958c	(12121708)
471394.22	3752552.91	31.44280c	(12121708)	471363.44	3752552.46	31.54933c	(12121708)
471332.68	3752553.31	31.46181c	(12121708)	471307.62	3752552.94	31.42390c	(12121708)
471284.05	3752552.70	31.26629c	(12121708)	471261.98	3752552.70	31.15759c	(12121708)
471241.90	3752552.70	31.12302c	(12121708)	471223.15	3752552.86	31.12671c	(12121708)
471205.90	3752552.86	31.15368c	(12121708)	471173.21	3752552.37	31.22235c	(12121708)
471135.70	3752552.53	30.93230c	(12121708)	471093.22	3752551.54	30.08624c	(12121708)
471059.37	3752551.70	28.52301c	(12121708)	471020.54	3752551.20	26.15273c	(12121708)
470981.05	3752563.65	22.62085c	(12121708)	470980.39	3752552.20	23.47466c	(12121708)
470980.06	3752535.61	24.86560c	(12121708)	470979.89	3752517.19	26.60849c	(12121708)
470980.06	3752499.76	28.46610c	(12121708)	470980.22	3752479.85	30.77141c	(12121708)
470980.39	3752459.44	33.32869c	(12121708)	470980.22	3752433.22	36.35442c	(12121708)
470980.06	3752404.02	38.68574c	(12121708)	470927.12	3752402.69	28.71173c	(12121708)
470907.87	3752402.69	26.39464c	(12121708)	470887.30	3752402.69	24.32945c	(12121708)
470869.71	3752402.03	22.95034c	(12121708)	470849.63	3752401.86	21.56612c	(12121708)
470829.39	3752402.19	20.33647c	(12121708)	470811.63	3752402.19	19.38254c	(12121708)
470791.55	3752402.53	18.39982c	(12121708)	470773.63	3752401.86	17.61900c	(12121708)

```
    470749.24    3752402.19        16.63510c (12121708)              470727.72
    3752391.74        16.04353c (12121708)
    470733.04    3752338.97        17.11318c (12121708)              470733.70
    3752320.55        17.41804c (12121708)
    470734.20    3752291.01        17.88315c (12121708)              470733.20
    3752265.78        18.18756c (12121708)
    470732.87    3752218.81        18.80489c (12121708)              470732.54
    3752182.14        19.27405c (12121708)
    470732.37    3752145.29        19.76681c (12121708)              470692.38
    3752144.80        18.00791c (12121708)
    470670.14    3752144.46        17.13669c (12121708)              470651.72
    3752144.30        16.47510c (12121708)
    470633.46    3752144.13        15.84460c (12121708)              470615.54
    3752143.97        15.26183c (12121708)
    470595.95    3752143.30        14.66686c (12121708)              470577.03
    3752143.47        14.13217c (12121708)
    470553.63    3752143.47        13.51636c (12121708)              470528.57
    3752142.64        12.89454c (12121708)
    470507.99    3752142.80        12.40282c (12121708)              470485.59
    3752142.47        11.90196c (12121708)
    470471.60    3752131.63        11.66722c (12121708)              470471.60
    3752109.21        11.78957c (12121708)
    470471.32    3752085.22        11.91257  (14111708)              470471.46
    3752037.68        12.37532  (12122024)
    470471.74    3752013.00        12.60307  (12122024)              470470.89
    3751987.18        12.79675  (12122024)
    470470.89    3751965.74        12.96503  (12122024)              470470.75
    3751944.44        13.12122  (12122024)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:27:45

                    PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                           INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                           VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                       ** CONC OF CO   IN
                       MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - -
    470470.61   3751924.27   13.23767 (12122024)   470470.47
    3751905.93   13.32290 (12122024)
    470470.89   3751884.06   13.47443 (12122024)   470470.61
    3751864.03   13.55963 (12122024)
    470470.33   3751844.00   13.60688 (12122024)   470470.19
    3751824.53   13.60130 (12122024)
    470470.33   3751805.77   13.61192 (12122024)   470470.33
    3751788.00   13.62250 (12122024)
    470470.33   3751761.19   13.90203 (15012908)   470471.03
    3751741.87   14.20771 (15012908)

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470470.05    3751722.82        14.45919  (15012908)                470470.19
3751703.36        14.72347  (15012908)
470470.19    3751683.75        14.93302  (15012908)                470470.33
3751664.28        15.10685  (15012908)
470470.33    3751642.41        15.27605  (15012908)                470470.47
3751621.82        15.37961  (15012908)
470470.19    3751599.81        15.42911  (15012908)                470470.61
3751578.79        15.46265  (15112224)
470469.62    3751555.94        15.40041  (14012108)                470470.05
3751512.49        15.27390  (14012108)
470468.64    3751414.59        14.93630  (13122608)                470469.76
3751385.25        15.31226  (13122608)
470468.65    3751358.95        15.39966  (13122608)                470462.93
3751325.56        15.31697  (13122608)
470461.98    3751310.62        15.27858  (13122608)                470462.61
3751296.63        15.21964  (13122608)
470462.61    3751283.28        15.13063  (13122608)                470462.61
3751269.92        15.00940  (13122608)
470462.93    3751254.35        14.85432  (13122608)                470461.98
3751240.67        14.73365  (13011908)
470463.25    3751227.64        14.73717  (13011908)                470756.39
3751290.59        20.12802  (13011908)
470797.72    3751268.33        20.74120  (14010208)                470891.19
3751226.38        23.05672  (14010208)
470940.78    3751191.82        23.66039  (14010208)                471000.61
3750923.63        17.35572b (13120824)
471029.26    3750923.63        17.31333  (12021624)                471056.29
3750923.90        17.91906  (12021624)
471077.91    3750924.44        18.25989  (12021624)                471097.64
3750924.44        18.72338  (12021624)
471118.18    3750924.98        19.18486  (12021624)                471138.99
3750927.42        19.74095  (12021624)
471160.07    3750928.77        20.37366  (12021708)                471181.15
3750931.47        22.38170  (12021708)
471201.69    3750930.93        23.34238  (12021708)                471222.50
3750931.47        23.47445  (12021708)
471244.13    3750931.20        24.19779  (15022208)                471264.40
3750931.74        25.24229  (15022208)
471284.40    3750931.74        25.98811  (15022208)                471305.75
3750931.74        26.35104  (15022208)
471324.67    3750930.93        26.17362  (15022208)                471343.05
3750930.12        25.67817  (15022208)
471363.86    3750929.04        25.24856  (15022208)                471381.96
3750928.77        25.01429  (13111608)
471400.88    3750928.23        25.49242  (13111608)                471421.15
3750927.96        25.89566  (13111608)
471440.59    3750928.11        26.00892  (13111608)                471461.83
3750927.45        25.86011  (13111608)
471479.76    3750927.95        25.75283  (13111608)                471499.68
3750927.62        25.88963  (16013024)
471519.26    3750928.78        26.14984  (16013024)                471537.02
3750929.61        27.09601  (16013024)
471556.77    3750930.94        27.72892  (16013024)                471580.68
3750934.09        28.89699  (16013024)
471624.00    3750940.23        28.84711  (16013024)                471795.90
3750950.11        27.75030  (12031708)
471796.29    3750967.88        28.38370  (12031708)                471796.69
3750987.22        28.77638  (12031708)
471797.47    3751006.75        28.61503  (12031708)                471796.69
3751025.30        28.96244  (12031708)
471795.90    3751046.40        29.26979  (12031708)                471796.69
3751072.96        29.38124  (16013024)
471797.47    3751143.85        30.26446  (16120624)                471833.01
3751143.85        29.72381  (16120624)
471867.38    3751144.05        28.15460  (16120624)                471891.02
3751144.44        25.28168  (16120624)
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     471916.60    3751144.24       20.16440  (13121824)              471939.45
       3751144.24       19.19629  (13121824)
     471963.08    3751144.44       18.01688  (13121824)              471984.17
       3751144.05       17.17360  (13121824)
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

                  PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                     INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                     VOL3   , VOL4   , VOL5   ,
                   VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                   VOL11   , VOL12   , VOL13   ,
                   VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                   VOL19   , VOL20   , VOL21   ,
                   VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                   VOL27   , VOL28   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                               ** CONC OF CO   IN
                               MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
     471999.02   3751163.38   17.70512 (13121824)   472000.19
       3751199.12   20.19140 (16120624)
     471999.80   3751230.56   24.71589 (16120624)   472000.38
       3751251.46   27.12155 (16120624)
     472000.19   3751281.15   28.80587m (12050208)   472001.95
       3751347.94   32.56035m (12050208)
     472036.90   3751348.52   30.00421m (12050208)   472063.07
       3751349.31   28.89702m (12050208)
     472084.56   3751348.33   27.75122m (12050208)   472104.87
       3751348.72   26.25339m (12050208)
     472127.33   3751348.52   23.87572m (12050208)   472150.76
       3751349.70   20.70639 (16120624)
     472171.47   3751349.50   19.55912 (16120624)   472194.12
       3751349.11   18.46578 (16120624)
     472222.63   3751348.72   17.08566 (16120624)   472247.83
       3751349.50   15.70114 (16120624)
     472269.70   3751349.11   14.53041 (16120624)   472290.40
       3751350.28   14.19241 (16120624)
     472313.64   3751350.48   13.86402 (16120624)   472333.76
       3751351.26   13.55299 (16120624)
     472354.85   3751351.26   12.82567 (12111724)   472377.70
       3751351.06   12.24538 (12111724)
     472401.72   3751351.06   11.74509 (12111724)   472425.55
       3751351.84   11.34953 (12111724)
     472445.67   3751350.67   11.07825 (12111724)   472463.24
       3751350.87   10.80640 (12111724)
     472484.14   3751350.87   10.51434 (12111724)   472503.87
       3751351.26   10.28477 (12111724)
     472523.79   3751351.26   10.08883 (12111724)   472543.32
       3751351.26   9.91110 (12111724)
     472563.24   3751352.24   9.72671 (12111724)   472582.57
       3751352.04   9.54509 (12111724)
     472601.32   3751352.04   9.37240 (12111724)   472606.79
       3751367.27   9.39240 (12111724)
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472607.57    3751396.37         9.56204  (12111724)              472608.55
3751432.11         9.88203b (16080308)
472608.94    3751462.58        10.15349m (12050224)              472609.52
3751497.15        10.62344m (12050224)
472610.70    3751553.78        11.31761m (12050224)              472665.97
3751553.98        10.67939m (12050224)
472690.38    3751553.59        10.42179m (12050224)              472713.50
3751554.27        10.23824m (12050224)
472734.64    3751554.04        10.03601m (12050224)              472759.46
3751554.04         9.80229m (12050224)
472781.75    3751554.50         9.61577m (12050224)              472849.76
3751556.11         9.25190m (12050224)
472871.82    3751556.11         9.11013m (12050224)              472895.25
3751555.65         8.95218m (12050224)
472922.60    3751555.88         8.79862m (12050224)              473092.41
3751802.31         8.86331m (12050224)
473204.80    3751856.81         8.22197m (12050224)              472991.21
3752083.31         8.95969m (12050224)
473295.12    3752052.49         7.31936m (12050224)              473356.76
3752050.34         7.01759m (12050224)
473495.10    3751996.58         6.66230m (12050224)              473486.50
3751917.74         6.87029m (12050224)
473392.60    3752058.22         6.82037m (12050224)              473464.28
3752082.59         6.42251m (12050224)
473550.29    3752087.61         6.05688m (12050224)              473584.69
3752089.76         5.93626m (12050224)
472765.59    3752474.09         7.89560  (16100508)              470432.16
3750483.93        13.69791  (12122408)
469244.06    3754182.82         2.64271  (13050508)              469596.75
3750785.65         7.00895  (13011908)
470466.55    3750530.27        15.26247  (12122408)              469319.29
3749244.53         3.43117  (13010408)
469229.64    3749502.19         4.15880  (13010408)              468465.38
3749582.33         3.46264  (12110508)
471438.37    3750129.76        11.43126  (15022208)              471657.54
3749918.78         8.71944  (15022208)
471732.91    3749916.52         8.36395  (13111608)              471710.30
3750132.80        10.82601  (13111608)
471273.89    3750119.77        10.43057  (12021708)              470973.43
3752300.84        38.81916c (12121708)
470973.95    3752278.41        39.72511c (12121708)              470973.95
3752235.65        41.39458c (12121708)
470971.86    3752174.63        42.01755c (12121708)              470967.17
3752139.16        41.95601c (12121708)
470962.47    3752110.48        42.28461c (12121708)              470952.57
3752077.10        42.24381c (12121708)
```

                         *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                             VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

```
        X-COORD (M)  Y-COORD (M)         CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD
        (M)         CONC    (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
          470935.35   3752029.11        40.96869c (12121708)                470922.32
         3751998.86       39.79071c (12121708)
          470910.32   3751966.53        40.17632c (12121708)                470891.54
         3751915.42       41.82792c (12121708)
          470880.59   3751877.86        42.87403c (12121708)                470874.85
         3751848.14       42.83704c (12121708)
          470871.72   3751810.58        42.08541  (12113008)                470871.20
         3751779.29       40.68474  (12113008)
          470872.25   3751740.70        39.04730  (12113008)                470876.42
         3751710.45       38.85528c (12121708)
          470884.76   3751671.85        39.66387c (12121708)                470900.41
         3751616.57       41.35095  (12113008)
          470911.88   3751582.67        41.96232  (12113008)                470919.71
         3751556.07       41.42788  (12113008)
          470931.18   3751524.25        40.95617  (12113008)                470940.05
         3751496.61       40.59536c (12121708)
          470951.52   3751461.14        39.65988c (12121708)                470961.95
         3751424.64       37.49853c (12121708)
```

▞▞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

                  PAGE 19
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                              *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

                                              DATE
                                                                           NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - -

ALL   HIGH 1ST HIGH VALUE IS   52.16890 ON 13090322: AT (471305.75, 3750931.74,
536.50,   536.50,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

▞▞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:27:45

                  PAGE 20
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                              *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```
                      ** CONC OF CO      IN
                      MICROGRAMS/M**3                              **


                                      DATE
                                                              NETWORK
GROUP ID                         AVERAGE CONC   (YYMMDDHH)     RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -


ALL     HIGH   1ST HIGH VALUE IS     42.87403c ON 12121708: AT (  470880.59,  3751877.86,
512.35,   512.35,   2.00)  DC



 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                       ***        17:27:45


                 PAGE  21
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1638 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of         1039 Calm Hours Identified

 A Total of          599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
            ***  NONE  ***



    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    **********************************
    *** AERMOD Finishes Successfully ***
    **********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/25/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2\14064 Ops
NO2.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473   3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212   3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136   3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606   3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736   3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660   3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690   3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898   3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181   3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636   3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712   3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581   3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617   3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380   3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889   3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606   3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530   3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661   3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898   3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105   3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181   3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465   3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541   3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410   3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435   3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117   3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248   3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172   3751619.077      534.860
```

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        LOCATION VOL29          VOLUME      471577.888   3751616.698      529.000
        LOCATION VOL30          VOLUME      471724.580   3751620.663      533.750
        LOCATION VOL31          VOLUME      471941.049   3751865.677      534.600
        LOCATION VOL32          VOLUME      471795.151   3751684.890      537.260
        LOCATION VOL33          VOLUME      471577.888   3751434.325      531.060
        LOCATION VOL34          VOLUME      471389.965   3751431.946      537.260
        LOCATION VOL35          VOLUME      471202.041   3751467.628      526.830
        LOCATION VOL36          VOLUME      471065.657   3751504.895      521.960
        LOCATION VOL37          VOLUME      471656.388   3751514.411      529.480
        LOCATION VOL38          VOLUME      471522.384   3751324.108      529.000
        LOCATION VOL39          VOLUME      471332.874   3751322.522      529.530
        LOCATION VOL40          VOLUME      471282.920   3751321.729      528.170
        LOCATION VOL41          VOLUME      471233.758   3751388.335      528.470
        LOCATION VOL48          VOLUME      471084.506   3752407.221      506.810
**  Source Parameters **
        SRCPARAM VOL1           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL2           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL3           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL4           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL5           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL6           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL7           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL8           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL9           0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL10          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL11          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL12          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL13          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL14          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL15          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL16          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL17          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL18          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL19          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL20          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL21          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL22          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL23          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL24          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL25          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL26          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL27          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL28          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL29          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL30          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL31          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL32          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL33          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL34          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL35          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL36          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL37          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL38          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL39          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL40          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL41          0.0240655952      5.000      43.702      1.400
        SRCPARAM VOL48          0.0240655952      5.000      43.702      1.400
        URBANSRC ALL
        SRCGROUP ALL
SO FINISHED
**
*******************************************
** AERMOD Receptor Pathway
*******************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops NO2.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of           0 Fatal Error Message(s)
 A Total of           2 Warning Message(s)
 A Total of           0 Informational Message(s)



    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***



    ********    WARNING MESSAGES    ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                    PAGE   1
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      ***   MODEL SETUP OPTIONS SUMMARY   ***
 -
 - - - - - - - - - - - - - - - -

 ** Model Options Selected:
    * Model Uses Regulatory DEFAULT Options

```
            * Model Is Setup For Calculation of Average CONCentration Values.
            * NO GAS DEPOSITION Data Provided.
            * NO PARTICLE DEPOSITION Data Provided.
            * Model Uses NO DRY DEPLETION. DDPLETE  =  F
            * Model Uses NO WET DEPLETION. WETDPLT  =  F
            * Stack-tip Downwash.
            * Model Accounts for ELEVated Terrain Effects.
            * Use Calms Processing Routine.
            * Use Missing Data Processing Routine.
            * No Exponential Decay.
            * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
              for Total of    1 Urban Area(s):
      Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
            * Urban Roughness Length of 1.0 Meter Used.
            * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
            * CCVR_Sub - Meteorological data includes CCVR substitutions
            * TEMP_Sub - Meteorological data includes TEMP substitutions
            * Model Accepts FLAGPOLE Receptor . Heights.
            * The User Specified a Pollutant Type of: NOX

**Model Calculates  1 Short Term Average(s) of:   1-HR

**This Run Includes:     42 Source(s);        1 Source Group(s); and     258 Receptor(s)

                   with:       0 POINT(s), including
                               0 POINTCAP(s) and       0 POINTHOR(s)
                    and:      42 VOLUME source(s)
                    and:       0 AREA type source(s)
                    and:       0 LINE source(s)
                    and:       0 RLINE/RLINEXT source(s)
                    and:       0 OPENPIT source(s)
                    and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                    and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
              Emission Units = GRAMS/SEC                                  ;  Emission Rate
              Unit Factor =   0.10000E+07
              Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =       3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
NO2.err
**File for Summary of Results:   14064 Ops
NO2.sum
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                         PAGE   2
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                           *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN PART.	EMISSION RATE (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)								

- -
- - - - - - - - - - - - - - -

SOURCE ID	NUMBER	EMISSION RATE	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ
VOL1 YES	0	0.24066E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.24066E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.24066E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.24066E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.24066E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.24066E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.24066E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.24066E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.24066E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.24066E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.24066E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.24066E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.24066E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.24066E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.24066E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.24066E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.24066E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.24066E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.24066E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.24066E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.24066E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.24066E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.24066E-01	471280.5	3751807.0	525.0	5.00	43.70	1.40

```
 VOL24              0   0.24066E-01  471093.4 3751841.9   515.6     5.00    43.70    1.40
  YES
 VOL25              0   0.24066E-01  470978.4 3751841.9   518.1     5.00    43.70    1.40
  YES
 VOL26              0   0.24066E-01  471014.1 3751654.8   520.4     5.00    43.70    1.40
  YES
 VOL27              0   0.24066E-01  471201.2 3751654.8   525.1     5.00    43.70    1.40
  YES
 VOL28              0   0.24066E-01  471389.2 3751619.1   534.9     5.00    43.70    1.40
  YES
 VOL29              0   0.24066E-01  471577.9 3751616.7   529.0     5.00    43.70    1.40
  YES
 VOL30              0   0.24066E-01  471724.6 3751620.7   533.8     5.00    43.70    1.40
  YES
 VOL31              0   0.24066E-01  471941.0 3751865.7   534.6     5.00    43.70    1.40
  YES
 VOL32              0   0.24066E-01  471795.2 3751684.9   537.3     5.00    43.70    1.40
  YES
 VOL33              0   0.24066E-01  471577.9 3751434.3   531.1     5.00    43.70    1.40
  YES
 VOL34              0   0.24066E-01  471390.0 3751431.9   537.3     5.00    43.70    1.40
  YES
 VOL35              0   0.24066E-01  471202.0 3751467.6   526.8     5.00    43.70    1.40
  YES
 VOL36              0   0.24066E-01  471065.7 3751504.9   522.0     5.00    43.70    1.40
  YES
 VOL37              0   0.24066E-01  471656.4 3751514.4   529.5     5.00    43.70    1.40
  YES
 VOL38              0   0.24066E-01  471522.4 3751324.1   529.0     5.00    43.70    1.40
  YES
 VOL39              0   0.24066E-01  471332.9 3751322.5   529.5     5.00    43.70    1.40
  YES
 VOL40              0   0.24066E-01  471282.9 3751321.7   528.2     5.00    43.70    1.40
  YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                                            *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
             URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE   SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - -

 VOL41   0   0.24066E-01 471233.8 3751388.3   528.5   5.00   43.70   1.40
  YES
 VOL48   0   0.24066E-01 471084.5 3752407.2   506.8   5.00   43.70   1.40
  YES

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                   PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

```
                    *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7       , VOL8       ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                 PAGE   5
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                              SOURCE IDs
  --------   ---------                              ----------


             2189641.  VOL1         , VOL2         , VOL3         , VOL4         , VOL5         ,
             VOL6         , VOL7         ,
  VOL8         ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                 PAGE   6
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                       *** DISCRETE CARTESIAN RECEPTORS ***
                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                   (METERS)
```

```
( 472283.7, 3752641.0,    492.6,    492.6,    2.0);    ( 472482.2, 3752398.0,
499.3,    499.3,    2.0);
( 472478.0, 3752183.1,    505.1,    505.1,    2.0);    ( 472148.1, 3752531.5,
495.2,    502.0,    2.0);
( 472052.1, 3752531.2,    499.4,    512.0,    2.0);    ( 471975.5, 3752531.2,
500.5,    514.0,    2.0);
( 471896.1, 3752530.9,    503.4,    513.0,    2.0);    ( 471840.8, 3752529.9,
503.4,    513.0,    2.0);
( 471816.6, 3752527.1,    500.6,    513.0,    2.0);    ( 471736.8, 3752557.9,
501.5,    501.5,    2.0);
( 471696.6, 3752558.9,    500.0,    500.0,    2.0);    ( 471627.3, 3752556.2,
501.9,    512.0,    2.0);
( 471584.6, 3752556.8,    504.5,    507.0,    2.0);    ( 471560.0, 3752556.2,
504.6,    507.0,    2.0);
( 471534.3, 3752554.9,    503.2,    509.0,    2.0);    ( 471514.9, 3752554.9,
502.2,    519.0,    2.0);
( 471486.8, 3752555.7,    503.1,    503.1,    2.0);    ( 471465.7, 3752555.4,
503.1,    503.1,    2.0);
( 471442.2, 3752555.0,    501.3,    505.0,    2.0);    ( 471419.7, 3752552.5,
500.3,    505.0,    2.0);
( 471394.2, 3752552.9,    501.4,    501.4,    2.0);    ( 471363.4, 3752552.5,
503.5,    503.5,    2.0);
( 471332.7, 3752553.3,    505.8,    505.8,    2.0);    ( 471307.6, 3752552.9,
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( 471284.0, 3752552.7,    506.2,    506.2,    2.0);    ( 471262.0, 3752552.7,
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( 471241.9, 3752552.7,    505.6,    505.6,    2.0);    ( 471223.1, 3752552.9,
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( 471205.9, 3752552.9,    506.2,    506.2,    2.0);    ( 471173.2, 3752552.4,
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( 471135.7, 3752552.5,    506.1,    506.1,    2.0);    ( 471093.2, 3752551.5,
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( 471059.4, 3752551.7,    504.7,    504.7,    2.0);    ( 471020.5, 3752551.2,
503.1,    503.1,    2.0);
( 470981.0, 3752563.6,    502.1,    502.1,    2.0);    ( 470980.4, 3752552.2,
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( 470980.1, 3752499.8,    504.0,    504.0,    2.0);    ( 470980.2, 3752479.8,
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( 470980.4, 3752459.4,    504.6,    504.6,    2.0);    ( 470980.2, 3752433.2,
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( 470980.1, 3752404.0,    506.0,    506.0,    2.0);    ( 470927.1, 3752402.7,
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( 470907.9, 3752402.7,    503.1,    503.1,    2.0);    ( 470887.3, 3752402.7,
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( 470869.7, 3752402.0,    500.7,    500.7,    2.0);    ( 470849.6, 3752401.9,
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( 470829.4, 3752402.2,    500.0,    500.0,    2.0);    ( 470811.6, 3752402.2,
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( 470791.5, 3752402.5,    499.2,    499.2,    2.0);    ( 470773.6, 3752401.9,
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( 470749.2, 3752402.2,    497.8,    497.8,    2.0);    ( 470727.7, 3752391.7,
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( 470733.0, 3752339.0,    499.9,    499.9,    2.0);    ( 470733.7, 3752320.5,
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( 470734.2, 3752291.0,    500.8,    500.8,    2.0);    ( 470733.2, 3752265.8,
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( 470732.9, 3752218.8,    501.2,    501.2,    2.0);    ( 470732.5, 3752182.1,
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( 470732.4, 3752145.3,    503.0,    503.0,    2.0);    ( 470692.4, 3752144.8,
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( 470670.1, 3752144.5,    502.1,    502.1,    2.0);    ( 470651.7, 3752144.3,
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( 470633.5, 3752144.1,    501.5,    501.5,    2.0);    ( 470615.5, 3752144.0,
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 (  470471.6, 3752131.6,     496.1,     496.1,         2.0);        (  470471.6, 3752109.2,
           497.3,     497.3,         2.0);
 (  470471.3, 3752085.2,     498.1,     498.1,         2.0);        (  470471.5, 3752037.7,
           499.7,     499.7,         2.0);
 (  470471.7, 3752013.0,     500.0,     500.0,         2.0);        (  470470.9, 3751987.2,
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 (  470470.9, 3751965.7,     500.1,     500.1,         2.0);        (  470470.8, 3751944.4,
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 (  470470.6, 3751924.3,     499.6,     499.6,         2.0);        (  470470.5, 3751905.9,
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 (  470470.9, 3751884.1,     499.1,     499.1,         2.0);        (  470470.6, 3751864.0,
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 (  470470.3, 3751844.0,     497.9,     497.9,         2.0);        (  470470.2, 3751824.5,
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 (  470470.3, 3751805.8,     495.7,     499.0,         2.0);        (  470470.3, 3751788.0,
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 (  470470.3, 3751761.2,     497.6,     497.6,         2.0);        (  470471.0, 3751741.9,
           499.5,     499.5,         2.0);
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*** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)

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 (  470470.2, 3751683.8,     504.9,     504.9,         2.0);        (  470470.3, 3751664.3,
           506.2,     506.2,         2.0);
 (  470470.3, 3751642.4,     507.6,     507.6,         2.0);        (  470470.5, 3751621.8,
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 (  470470.2, 3751599.8,     509.0,     509.0,         2.0);        (  470470.6, 3751578.8,
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 (  470462.0, 3751310.6,     512.6,     512.6,         2.0);        (  470462.6, 3751296.6,
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 (  470462.6, 3751283.3,     512.0,     512.0,         2.0);        (  470462.6, 3751269.9,
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 (  470462.9, 3751254.3,     509.6,     512.0,         2.0);        (  470462.0, 3751240.7,
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                        *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                    (METERS)

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  (472563.2, 3751352.2,   506.1,   506.1,   2.0);   (472582.6, 3751352.0,
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  (472601.3, 3751352.0,   505.3,   505.3,   2.0);   (472606.8, 3751367.3,
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  (472607.6, 3751396.4,   504.2,   504.2,   2.0);   (472608.5, 3751432.1,
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  (472871.8, 3751556.1,   494.9,   494.9,   2.0);   (472895.2, 3751555.6,
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  (472922.6, 3751555.9,   493.8,   493.8,   2.0);   (473092.4, 3751802.3,
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  (473204.8, 3751856.8,   481.6,   481.6,   2.0);   (472991.2, 3752083.3,
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  (473550.3, 3752087.6,   473.0,   473.0,   2.0);   (473584.7, 3752089.8,
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  (469244.1, 3754182.8,   471.3,   485.0,   2.0);   (469596.8, 3750785.6,
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  (470466.5, 3750530.3,   535.0,   535.0,   2.0);   (469319.3, 3749244.5,
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  (469229.6, 3749502.2,   503.4,   503.4,   2.0);   (468465.4, 3749582.3,
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  (471438.4, 3750129.8,   539.2,   539.2,   2.0);   (471657.5, 3749918.8,
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  (471732.9, 3749916.5,   534.7,   534.7,   2.0);   (471710.3, 3750132.8,
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  (471273.9, 3750119.8,   540.5,   540.5,   2.0);   (470973.4, 3752300.8,
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  (470974.0, 3752278.4,   504.4,   504.4,   2.0);   (470974.0, 3752235.6,
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  ( 470910.3,  3751966.5,      508.0,       508.0,         2.0);           ( 470891.5, 3751915.4,
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  ( 470880.6,  3751877.9,      512.3,       512.3,         2.0);           ( 470874.8, 3751848.1,
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  ( 470871.7,  3751810.6,      517.1,       517.1,         2.0);           ( 470871.2, 3751779.3,
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  ( 470884.8,  3751671.8,      514.8,       514.8,         2.0);           ( 470900.4, 3751616.6,
    516.8,       516.8,         2.0);
  ( 470911.9,  3751582.7,      518.5,       518.5,         2.0);           ( 470919.7, 3751556.1,
    518.3,       518.3,         2.0);
  ( 470931.2,  3751524.2,      516.9,       516.9,         2.0);           ( 470940.0, 3751496.6,
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  ( 470951.5,  3751461.1,      514.4,       514.4,         2.0);           ( 470962.0, 3751424.6,
    513.8,       513.8,         2.0);
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                  PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                        (1=YES; 0=NO)

       1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

          NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
          INCLUDED IN THE DATA FILE.

                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                         ***
                                            (METERS/SEC)

                             1.54,   3.09,   5.14,   8.23, 10.80,

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                  PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC                                    Met
   Version:  16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE


   Profile format:
   FREE


   Surface station no.:     3171              Upper air station no.:     3190
               Name: UNKNOWN                             Name:
               UNKNOWN
               Year:   2012                              Year:   2012


  First 24 hours of scalar data
  YR MO DY JDY HR      H0      U*      W*   DT/DZ ZICNV ZIMCH   M-O LEN    Z0  BOWEN ALBEDO  REF WS
  WD      HT   REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -
 12 01 01   1 01  -25.6  0.266 -9.000 -9.000 -999.  330.      77.9  0.15   2.40   1.00    2.93
55.   10.1  288.1    2.0
 12 01 01   1 02  -26.8  0.277 -9.000 -9.000 -999.  351.      84.7  0.15   2.40   1.00    3.05
55.   10.1  287.0    2.0
 12 01 01   1 03  -21.5  0.221 -9.000 -9.000 -999.  250.      53.5  0.15   2.40   1.00    2.45
74.   10.1  284.2    2.0
 12 01 01   1 04  -22.0  0.227 -9.000 -9.000 -999.  260.      56.8  0.15   2.40   1.00    2.52
77.   10.1  285.9    2.0
 12 01 01   1 05  -20.0  0.206 -9.000 -9.000 -999.  225.      46.8  0.15   2.40   1.00    2.30
80.   10.1  285.4    2.0
 12 01 01   1 06  -14.4  0.171 -9.000 -9.000 -999.  170.      32.1  0.15   2.40   1.00    1.93
79.   10.1  287.0    2.0
 12 01 01   1 07  -14.9  0.174 -9.000 -9.000 -999.  174.      33.2  0.15   2.40   1.00    1.96
77.   10.1  284.2    2.0
 12 01 01   1 08  -11.9  0.169 -9.000 -9.000 -999.  167.      36.1  0.15   2.40   0.53    1.89
77.   10.1  288.1    2.0
 12 01 01   1 09   40.4  0.234  0.359  0.006   40.  272.     -28.1  0.15   2.40   0.31    2.10
81.   10.1  289.2    2.0
 12 01 01   1 10  112.6  0.246  0.742  0.005  129.  293.     -11.8  0.15   2.40   0.24    1.99
101.   10.1  296.4    2.0
 12 01 01   1 11  161.0  0.402  1.188  0.005  369.  611.     -35.6  0.15   2.40   0.21    3.68
78.   10.1  298.8    2.0
 12 01 01   1 12  184.7  0.337  1.516  0.005  668.  473.     -18.4  0.15   2.40   0.20    2.89
68.   10.1  300.4    2.0
 12 01 01   1 13  183.9  0.310  1.809  0.005 1139.  414.     -14.2  0.15   2.40   0.20    2.57
64.   10.1  302.5    2.0
 12 01 01   1 14  156.6  0.374  1.852  0.005 1434.  549.     -29.5  0.15   2.40   0.22    3.37
63.   10.1  303.1    2.0
 12 01 01   1 15  104.3  0.382  1.658  0.005 1546.  567.     -47.2  0.15   2.40   0.25    3.59
62.   10.1  302.5    2.0
 12 01 01   1 16   31.8  0.374  1.123  0.005 1573.  550.    -145.8  0.15   2.40   0.34    3.76
69.   10.1  300.9    2.0
 12 01 01   1 17  -23.3  0.276 -9.000 -9.000 -999.  354.      84.0  0.15   2.40   0.62    3.03
59.   10.1  297.5    2.0
 12 01 01   1 18  -21.5  0.229 -9.000 -9.000 -999.  264.      57.8  0.15   2.40   1.00    2.54
54.   10.1  295.4    2.0
 12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.      45.6  0.15   2.40   1.00    2.27
79.   10.1  292.0    2.0
 12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.      52.2  0.15   2.40   1.00    2.42
79.   10.1  292.5    2.0
 12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.      46.9  0.15   2.40   1.00    2.30
95.   10.1  290.9    2.0
 12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.      39.8  0.15   2.40   1.00    2.13
78.   10.1  290.4    2.0
 12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.      49.0  0.15   2.40   1.00    2.35
```

```
52.    10.1  289.2     2.0
12 01 01   1 24   -16.4  0.183 -9.000 -9.000 -999.  189.      37.0  0.15   2.40   1.00    2.06
75.    10.1  288.8     2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0 -99.00 -99.00


F indicates top of profile (=1) or below (=0)
 FF *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***      17:32:05


                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):     VOL1        , VOL2         ,
                              VOL3         , VOL4        , VOL5        ,
           VOL6       , VOL7        , VOL8        , VOL9        , VOL10        ,
           VOL11      , VOL12       , VOL13       ,
           VOL14      , VOL15       , VOL16       , VOL17        , VOL18        ,
           VOL19      , VOL20       , VOL21       ,
           VOL22      , VOL23       , VOL24       , VOL25        , VOL26        ,
           VOL27      , VOL28       ,  . . .       ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                        ** CONC OF NOX       IN
                        MICROGRAMS/M**3                              **


    X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)         X-COORD (M)  Y-COORD
      (M)        CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      472283.74   3752640.98     5.16964  (14051521)          472482.23
      3752398.04       4.74519  (12041107)
      472477.97   3752183.12     4.73795  (15092020)          472148.10
      3752531.53       9.63709  (13112916)
      472052.12   3752531.22    11.54499  (13112916)          471975.52
      3752531.22       8.75710  (13112916)
      471896.06   3752530.90     9.30146  (13062606)          471840.76
      3752529.94       9.56907  (13062606)
      471816.60   3752527.08     9.67741  (13062606)          471736.82
      3752557.91       9.22947  (13112916)
      471696.59   3752558.87    10.05634  (13112916)          471627.29
      3752556.22       9.82009  (13112916)
      471584.60   3752556.76    10.01742  (13062606)          471560.01
      3752556.22      10.06012  (13062606)
      471534.35   3752554.87    10.03841  (13062606)          471514.89
      3752554.87       9.95527  (13062606)
      471486.79   3752555.68     9.88440  (13062606)          471465.72
      3752555.41       9.83604  (13062606)
      471442.21   3752554.98     9.72912  (13062606)          471419.71
      3752552.46       9.73178  (13062606)
      471394.22   3752552.91     9.70432  (13062606)          471363.44
      3752552.46       9.73043  (13062606)
      471332.68   3752553.31     9.69676  (13062606)          471307.62
      3752552.94       9.68202  (13062606)
      471284.05   3752552.70     9.63436  (13062606)          471261.98
      3752552.70       9.60122  (13062606)
      471241.90   3752552.70     9.59032  (13062606)          471223.15
      3752552.86       9.59053  (13062606)
```

```
471205.90    3752552.86         9.59819  (13062606)                    471173.21
  3752552.37         9.61878  (13062606)
471135.70    3752552.53         9.52984  (13062606)                    471093.22
  3752551.54         9.29204  (15100406)
471059.37    3752551.70         9.32785  (15062802)                    471020.54
  3752551.20         8.71483  (15062802)
470981.05    3752563.65         7.74396  (13083019)                    470980.39
  3752552.20         8.01586  (13083019)
470980.06    3752535.61         8.42288  (13083019)                    470979.89
  3752517.19         8.87529  (13083019)
470980.06    3752499.76         9.26699  (13083019)                    470980.22
  3752479.85         9.82126  (14090307)
470980.39    3752459.44        11.25345  (14090307)                    470980.22
  3752433.22        12.14303  (14090307)
470980.06    3752404.02        11.92554  (13062606)                    470927.12
  3752402.69         8.84587  (13062606)
470907.87    3752402.69         8.13385  (13062606)                    470887.30
  3752402.69         7.50017  (13062606)
470869.71    3752402.03         7.07458  (13062606)                    470849.63
  3752401.86         6.64754  (13062606)
470829.39    3752402.19         6.26827  (13062606)                    470811.63
  3752402.19         5.97411  (13062606)
470791.55    3752402.53         5.67126  (13062606)                    470773.63
  3752401.86         5.43093  (15042903)
470749.24    3752402.19         5.18576  (15042903)                    470727.72
  3752391.74         5.02740  (15042903)
470733.04    3752338.97         5.27356  (13062606)                    470733.70
  3752320.55         5.36750  (13062606)
470734.20    3752291.01         5.51055  (13062606)                    470733.20
  3752265.78         5.60467  (13062606)
470732.87    3752218.81         5.79512  (13062606)                    470732.54
  3752182.14         5.93961  (13062606)
470732.37    3752145.29         6.09068  (13062606)                    470692.38
  3752144.80         5.54844  (13062606)
470670.14    3752144.46         5.27996  (13062606)                    470651.72
  3752144.30         5.07583  (13062606)
470633.46    3752144.13         4.88173  (13062606)                    470615.54
  3752143.97         4.70236  (13062606)
470595.95    3752143.30         4.51925  (13062606)                    470577.03
  3752143.47         4.37524  (14091620)
470553.63    3752143.47         4.25721  (15071822)                    470528.57
  3752142.64         4.13869  (15071820)
470507.99    3752142.80         4.03503  (15071820)                    470485.59
  3752142.47         3.92727  (15071820)
470471.60    3752131.63         3.88726  (15071820)                    470471.60
  3752109.21         3.93660  (15071820)
470471.32    3752085.22         3.97955  (15071820)                    470471.46
  3752037.68         4.07219  (15071822)
470471.74    3752013.00         4.11279  (12010420)                    470470.89
  3751987.18         4.14323  (16111021)
470470.89    3751965.74         4.17665  (16111021)                    470470.75
  3751944.44         4.20546  (16111021)
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 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                  PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
              VOL11   , VOL12   , VOL13   ,

```
                 VOL14        , VOL15        , VOL16        , VOL17        , VOL18           ,
                 VOL19        , VOL20        , VOL21           ,
                 VOL22        , VOL23        , VOL24        , VOL25        , VOL26           ,
                 VOL27        , VOL28           ,  . . .         ,

                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF NOX       IN
                             MICROGRAMS/M**3                                      **


      X-COORD (M)  Y-COORD (M)       CONC      (YYMMDDHH)            X-COORD (M)  Y-COORD
      (M)         CONC    (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
      470470.61   3751924.27       4.22006  (16111021)             470470.47
      3751905.93        4.22460  (16111021)
      470470.89   3751884.06       4.25087  (16110919)             470470.61
      3751864.03        4.26618  (16110919)
      470470.33   3751844.00       4.26773  (16110919)             470470.19
      3751824.53        4.25096  (16110919)
      470470.33   3751805.77       4.24563  (16110818)             470470.33
      3751788.00        4.24058  (16110818)
      470470.33   3751761.19       4.31221  (16110818)             470471.03
      3751741.87        4.36429  (16110818)
      470470.05   3751722.82       4.40146  (16110818)             470470.19
      3751703.36        4.45773  (14051420)
      470470.19   3751683.75       4.51191  (14051420)             470470.33
      3751664.28        4.55504  (14051420)
      470470.33   3751642.41       4.59577  (14051420)             470470.47
      3751621.82        4.61780  (14051420)
      470470.19   3751599.81       4.62423  (14051420)             470470.61
      3751578.79        4.61997  (14051420)
      470469.62   3751555.94       4.57238  (14051420)             470470.05
      3751512.49        4.47109  (14051420)
      470468.64   3751414.59       4.26678  (16062003)             470469.76
      3751385.25        4.36351  (16062003)
      470468.65   3751358.95       4.38025  (16062003)             470462.93
      3751325.56        4.34848  (16062003)
      470461.98   3751310.62       4.33554  (13050223)             470462.61
      3751296.63        4.32081  (13050223)
      470462.61   3751283.28       4.29780  (13050223)             470462.61
      3751269.92        4.26591  (13050223)
      470462.93   3751254.35       4.22558  (13050223)             470461.98
      3751240.67        4.18836  (13050223)
      470463.25   3751227.64       4.17590  (13050223)             470756.39
      3751290.59        5.73267  (14100421)
      470797.72   3751268.33       5.93511  (14100421)             470891.19
      3751226.38        6.61420  (13083002)
      470940.78   3751191.82       6.86897  (15090923)             471000.61
      3750923.63        6.16114  (15031222)
      471029.26   3750923.63       6.22259  (15031222)             471056.29
      3750923.90        6.48084  (14072222)
      471077.91   3750924.44       6.70138  (14072222)             471097.64
      3750924.44        7.35225  (14072222)
      471118.18   3750924.98       8.13491  (15073004)             471138.99
      3750927.42        8.94226  (14070703)
      471160.07   3750928.77       9.66613  (14070703)             471181.15
      3750931.47       11.05429  (12111622)
      471201.69   3750930.93      11.82031  (12111622)             471222.50
      3750931.47       12.15222  (15102720)
      471244.13   3750931.20      12.78193  (15102720)             471264.40
      3750931.74       13.27654  (15102720)
      471284.40   3750931.74      13.61723  (13090322)             471305.75
      3750931.74       13.80091  (13090322)
      471324.67   3750930.93      13.46292  (13090322)             471343.05
      3750930.12       13.09357  (13070301)
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    471363.86    3750929.04      12.81121   (14092602)              471381.96
    3750928.77       12.72584   (14092602)
    471400.88    3750928.23      12.70929   (15091223)              471421.15
    3750927.96       12.64260   (15091223)
    471440.59    3750928.11      12.45566   (12091920)              471461.83
    3750927.45       12.24791   (12091920)
    471479.76    3750927.95      12.08516   (13090522)              471499.68
    3750927.62       11.96882   (13090522)
    471519.26    3750928.78      11.84052   (13090522)              471537.02
    3750929.61       12.05189   (13090522)
    471556.77    3750930.94      12.09072   (13090522)              471580.68
    3750934.09       12.60389   (13090522)
    471624.00    3750940.23      12.87712   (13090322)              471795.90
    3750950.11       12.38254   (14070402)
    471796.29    3750967.88      12.51596   (14070402)              471796.69
    3750987.22       12.58127   (15100222)
    471797.47    3751006.75      12.44884   (15100222)              471796.69
    3751025.30       12.48843   (15100222)
    471795.90    3751046.40      12.57377   (12092021)              471796.69
    3751072.96       12.58903   (12092021)
    471797.47    3751143.85      12.53184   (12092021)              471833.01
    3751143.85       11.75119   (12092021)
    471867.38    3751144.05      10.50380   (12081722)              471891.02
    3751144.44        8.78320   (12081722)
    471916.60    3751144.24       7.08577   (12081621)              471939.45
    3751144.24        6.65924   (14083024)
    471963.08    3751144.44       6.21779   (15041821)              471984.17
    3751144.05        6.07038   (15041821)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:32:05

                   PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                             VOL3   , VOL4   , VOL5   ,
                 VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                 VOL11   , VOL12   , VOL13   ,
                 VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                 VOL19   , VOL20   , VOL21   ,
                 VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                 VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF NOX   IN
                         MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
   (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
    471999.02   3751163.38   6.07267   (15041821)   472000.19
    3751199.12   6.78529   (15092721)
    471999.80   3751230.56   8.21271   (16061922)   472000.38
    3751251.46   9.21758   (16061922)
    472000.19   3751281.15   9.84492   (14091022)   472001.95
    3751347.94   10.86807   (12080621)
    472036.90   3751348.52   9.81579   (12080624)   472063.07
    3751349.31   9.40351   (12080524)
    472084.56   3751348.33   8.96919   (13063022)   472104.87
    3751348.72   8.40057   (13082222)

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472127.33   3751348.52      7.51622  (12081422)                      472150.76
3751349.70      6.63133  (14091223)
472171.47   3751349.50      6.19015  (12081622)                      472194.12
3751349.11      5.98864  (15081620)
472222.63   3751348.72      5.70508  (16082920)                      472247.83
3751349.50      5.46277  (16082920)
472269.70   3751349.11      5.13749  (16082920)                      472290.40
3751350.28      5.03477  (16082920)
472313.64   3751350.48      4.92829  (16082920)                      472333.76
3751351.26      4.82659  (16082920)
472354.85   3751351.26      4.60715  (16082920)                      472377.70
3751351.06      4.41709  (16082920)
472401.72   3751351.06      4.21754  (16081620)                      472425.55
3751351.84      3.98181  (15102418)
472445.67   3751350.67      3.91454  (15102418)                      472463.24
3751350.87      3.80372  (15102418)
472484.14   3751350.87      3.71540  (15102418)                      472503.87
3751351.26      3.65062  (15102418)
472523.79   3751351.26      3.60075  (15102418)                      472543.32
3751351.26      3.55628  (15102418)
472563.24   3751352.24      3.50471  (15102418)                      472582.57
3751352.04      3.45355  (15102418)
472601.32   3751352.04      3.40303  (15102418)                      472606.79
3751367.27      3.39011  (15091321)
472607.57   3751396.37      3.42546  (15091321)                      472608.55
3751432.11      3.47754  (15070221)
472608.94   3751462.58      3.50764  (15070221)                      472609.52
3751497.15      3.56013  (14072920)
472610.70   3751553.78      3.65472  (12080920)                      472665.97
3751553.98      3.45840  (12080920)
472690.38   3751553.59      3.37931  (12080920)                      472713.50
3751554.27      3.32146  (12080920)
472734.64   3751554.04      3.25841  (12080920)                      472759.46
3751554.04      3.18442  (12080920)
472781.75   3751554.50      3.12419  (12080920)                      472849.76
3751556.11      3.00472  (12080920)
472871.82   3751556.11      2.95834  (12080920)                      472895.25
3751555.65      2.90718  (12080920)
472922.60   3751555.88      2.85551  (12080920)                      473092.41
3751802.31      2.62603  (13082619)
473204.80   3751856.81      2.45466  (13082920)                      472991.21
3752083.31      2.84272  (16082919)
473295.12   3752052.49      2.32050  (13090121)                      473356.76
3752050.34      2.23046  (12080821)
473495.10   3751996.58      2.07862  (13070920)                      473486.50
3751917.74      2.08289  (13082920)
473392.60   3752058.22      2.18444  (13090121)                      473464.28
3752082.59      2.10614  (13090121)
473550.29   3752087.61      2.00450  (13090121)                      473584.69
3752089.76      1.97199  (13090121)
472765.59   3752474.09      3.21063  (16062023)                      470432.16
3750483.93      5.59893  (16100620)
469244.06   3754182.82      1.22569  (14091624)                      469596.75
3750785.65      2.07666  (15021122)
470466.55   3750530.27      6.40470  (12091321)                      469319.29
3749244.53      1.28181  (15100924)
469229.64   3749502.19      1.35581  (15031221)                      468465.38
3749582.33      1.10380  (14051321)
471438.37   3750129.76      7.15371  (16102220)                      471657.54
3749918.78      5.34628  (14092602)
471732.91   3749916.52      5.07375  (15091223)                      471710.30
3750132.80      6.29053  (15091223)
471273.89   3750119.77      7.50830  (15073004)                      470973.43
3752300.84     11.97145  (13062606)
470973.95   3752278.41     12.25037  (13062606)                      470973.95
3752235.65     12.76675  (13062606)
```

```
     470971.86   3752174.63      12.95733  (13062606)                470967.17
        3752139.16      12.93152  (13062606)
     470962.47   3752110.48      13.03176  (13062606)                470952.57
        3752077.10      13.02294  (13062606)
```

▯▯ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                   PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                   VOL3   , VOL4   , VOL5   ,
                 VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                 VOL11   , VOL12   , VOL13   ,
                 VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                 VOL19   , VOL20   , VOL21   ,
                 VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                 VOL27   , VOL28   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                            ** CONC OF NOX   IN
                            MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
      (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - -
     470935.35   3752029.11   12.63312 (13062606)   470922.32
        3751998.86   12.27996 (13062606)
     470910.32   3751966.53   12.39439 (13062606)   470891.54
        3751915.42   12.90092 (13062606)
     470880.59   3751877.86   13.22504 (13062606)   470874.85
        3751848.14   13.21235 (13062606)
     470871.72   3751810.58   12.91622 (13062606)   470871.20
        3751779.29   12.46658 (13062606)
     470872.25   3751740.70   12.02216 (13062606)   470876.42
        3751710.45   11.98082 (13062606)
     470884.76   3751671.85   12.23177 (13062606)   470900.41
        3751616.57   12.70995 (13062606)
     470911.88   3751582.67   12.79727 (13062606)   470919.71
        3751556.07   12.65767 (13062606)
     470931.18   3751524.25   12.62457 (13062606)   470940.05
        3751496.61   12.52540 (13062606)
     470951.52   3751461.14   12.23769 (13062606)   470961.95
        3751424.64   11.60582 (13041207)

▯▯ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                   PAGE 15
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

                            ** CONC OF NOX   IN
                            MICROGRAMS/M**3   **

                                          DATE

- -
- - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   13.80091 ON 13090322: AT (471305.75, 3750931.74,
536.50,   536.50,   2.00) DC

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:32:05

                    PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

    ******** FATAL ERROR MESSAGES ********
              *** NONE ***

    ********   WARNING MESSAGES   ********
 ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
 ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ****
    *** AERMOD Finishes Successfully ***
    ****

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/25/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10\14064 Ops
PM10.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

```
    LOCATION VOL29         VOLUME      471577.888  3751616.698      529.000
    LOCATION VOL30         VOLUME      471724.580  3751620.663      533.750
    LOCATION VOL31         VOLUME      471941.049  3751865.677      534.600
    LOCATION VOL32         VOLUME      471795.151  3751684.890      537.260
    LOCATION VOL33         VOLUME      471577.888  3751434.325      531.060
    LOCATION VOL34         VOLUME      471389.965  3751431.946      537.260
    LOCATION VOL35         VOLUME      471202.041  3751467.628      526.830
    LOCATION VOL36         VOLUME      471065.657  3751504.895      521.960
    LOCATION VOL37         VOLUME      471656.388  3751514.411      529.480
    LOCATION VOL38         VOLUME      471522.384  3751324.108      529.000
    LOCATION VOL39         VOLUME      471332.874  3751322.522      529.530
    LOCATION VOL40         VOLUME      471282.920  3751321.729      528.170
    LOCATION VOL41         VOLUME      471233.758  3751388.335      528.470
    LOCATION VOL48         VOLUME      471084.506  3752407.221      506.810
** Source Parameters **
    SRCPARAM VOL1      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL2      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL3      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL4      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL5      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL6      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL7      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL8      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL9      0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL10     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL11     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL12     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL13     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL14     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL15     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL16     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL17     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL18     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL19     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL20     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL21     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL22     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL23     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL24     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL25     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL26     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL27     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL28     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL29     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL30     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL31     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL32     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL33     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL34     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL35     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL36     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL37     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL38     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL39     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL40     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL41     0.0082276616      5.000      43.702      1.400
    SRCPARAM VOL48     0.0082276616      5.000      43.702      1.400
    URBANSRC ALL
    SRCGROUP ALL
SO FINISHED
**
*******************************************
** AERMOD Receptor Pathway
*******************************************
**
**
```

```
RE STARTING
    INCLUDED "14064 Ops PM10.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 24 1ST
** Auto-Generated Plotfiles
    PLOTFILE 24 ALL 1ST "14064 OPS PM10.AD\24H1GALL.PLT" 31
    SUMMFILE "14064 Ops PM10.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)



    ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***



    ********   WARNING MESSAGES   ********
 ME W186      146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187      146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

🈁 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***         17:36:11


                    PAGE   1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        ***      MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
           * Model Is Setup For Calculation of Average CONCentration Values.
           * NO GAS DEPOSITION Data Provided.
           * NO PARTICLE DEPOSITION Data Provided.
           * Model Uses NO DRY DEPLETION. DDPLETE  =  F
           * Model Uses NO WET DEPLETION. WETDPLT  =  F
           * Stack-tip Downwash.
           * Model Accounts for ELEVated Terrain Effects.
           * Use Calms Processing Routine.
           * Use Missing Data Processing Routine.
           * No Exponential Decay.
           * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
             for Total of    1 Urban Area(s):
     Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
           * Urban Roughness Length of 1.0 Meter Used.
           * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
           * CCVR_Sub - Meteorological data includes CCVR substitutions
           * TEMP_Sub - Meteorological data includes TEMP substitutions
           * Model Accepts FLAGPOLE Receptor . Heights.
           * The User Specified a Pollutant Type of: PM_10

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:      42 Source(s);        1 Source Group(s); and     258 Receptor(s)

                with:       0 POINT(s), including
                            0 POINTCAP(s) and       0 POINTHOR(s)
                 and:      42 VOLUME source(s)
                 and:       0 AREA type source(s)
                 and:       0 LINE source(s)
                 and:       0 RLINE/RLINEXT source(s)
                 and:       0 OPENPIT source(s)
                 and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                 Emission Units = GRAMS/SEC                                ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM10.err
**File for Summary of Results:   14064 Ops
PM10.sum
```

 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

                    PAGE   2
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.82277E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.82277E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.82277E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.82277E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.82277E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.82277E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.82277E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.82277E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.82277E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.82277E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.82277E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.82277E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.82277E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.82277E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.82277E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.82277E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.82277E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.82277E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.82277E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.82277E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.82277E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.82277E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.82277E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40

```
VOL24            0   0.82277E-02  471093.4 3751841.9   515.6    5.00    43.70     1.40
  YES
VOL25            0   0.82277E-02  470978.4 3751841.9   518.1    5.00    43.70     1.40
  YES
VOL26            0   0.82277E-02  471014.1 3751654.8   520.4    5.00    43.70     1.40
  YES
VOL27            0   0.82277E-02  471201.2 3751654.8   525.1    5.00    43.70     1.40
  YES
VOL28            0   0.82277E-02  471389.2 3751619.1   534.9    5.00    43.70     1.40
  YES
VOL29            0   0.82277E-02  471577.9 3751616.7   529.0    5.00    43.70     1.40
  YES
VOL30            0   0.82277E-02  471724.6 3751620.7   533.8    5.00    43.70     1.40
  YES
VOL31            0   0.82277E-02  471941.0 3751865.7   534.6    5.00    43.70     1.40
  YES
VOL32            0   0.82277E-02  471795.2 3751684.9   537.3    5.00    43.70     1.40
  YES
VOL33            0   0.82277E-02  471577.9 3751434.3   531.1    5.00    43.70     1.40
  YES
VOL34            0   0.82277E-02  471390.0 3751431.9   537.3    5.00    43.70     1.40
  YES
VOL35            0   0.82277E-02  471202.0 3751467.6   526.8    5.00    43.70     1.40
  YES
VOL36            0   0.82277E-02  471065.7 3751504.9   522.0    5.00    43.70     1.40
  YES
VOL37            0   0.82277E-02  471656.4 3751514.4   529.5    5.00    43.70     1.40
  YES
VOL38            0   0.82277E-02  471522.4 3751324.1   529.0    5.00    43.70     1.40
  YES
VOL39            0   0.82277E-02  471332.9 3751322.5   529.5    5.00    43.70     1.40
  YES
VOL40            0   0.82277E-02  471282.9 3751321.7   528.2    5.00    43.70     1.40
  YES
```

 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

                   PAGE   3
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

```
              NUMBER EMISSION RATE                  BASE     RELEASE    INIT.     INIT.
              URBAN  EMISSION RATE
  SOURCE       PART.  (GRAMS/SEC)     X       Y      ELEV.    HEIGHT     SY        SZ
  SOURCE  SCALAR VARY
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

VOL41            0   0.82277E-02  471233.8 3751388.3   528.5    5.00    43.70     1.40
  YES
VOL48            0   0.82277E-02  471084.5 3752407.2   506.8    5.00    43.70     1.40
  YES
```

 ▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

                   PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                SOURCE IDs
 -----------                                                ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7       , VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         17:36:11

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                              SOURCE IDs
  --------   ---------                              ----------


             2189641.  VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
             VOL6        , VOL7        ,
 VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         17:36:11

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                            *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                      (METERS)
```

```
          500.9,        500.9,          2.0);
( 470596.0, 3752143.3,        500.2,        500.2,          2.0);          ( 470577.0, 3752143.5,
500.0,        500.0,          2.0);
( 470553.6, 3752143.5,        499.7,        499.7,          2.0);          ( 470528.6, 3752142.6,
498.8,        498.8,          2.0);
( 470508.0, 3752142.8,        497.6,        497.6,          2.0);          ( 470485.6, 3752142.5,
496.3,        496.3,          2.0);
( 470471.6, 3752131.6,        496.1,        496.1,          2.0);          ( 470471.6, 3752109.2,
497.3,        497.3,          2.0);
( 470471.3, 3752085.2,        498.1,        498.1,          2.0);          ( 470471.5, 3752037.7,
499.7,        499.7,          2.0);
( 470471.7, 3752013.0,        500.0,        500.0,          2.0);          ( 470470.9, 3751987.2,
500.1,        500.1,          2.0);
( 470470.9, 3751965.7,        500.1,        500.1,          2.0);          ( 470470.8, 3751944.4,
500.1,        500.1,          2.0);
( 470470.6, 3751924.3,        499.6,        499.6,          2.0);          ( 470470.5, 3751905.9,
499.0,        499.0,          2.0);
( 470470.9, 3751884.1,        499.1,        499.1,          2.0);          ( 470470.6, 3751864.0,
498.6,        498.6,          2.0);
( 470470.3, 3751844.0,        497.9,        497.9,          2.0);          ( 470470.2, 3751824.5,
496.6,        496.6,          2.0);
( 470470.3, 3751805.8,        495.7,        499.0,          2.0);          ( 470470.3, 3751788.0,
495.1,        502.0,          2.0);
( 470470.3, 3751761.2,        497.6,        497.6,          2.0);          ( 470471.0, 3751741.9,
499.5,        499.5,          2.0);
```

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Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** DISCRETE CARTESIAN RECEPTORS ***
                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)

```
( 470470.0, 3751722.8,        501.4,        501.4,          2.0);          ( 470470.2, 3751703.4,
503.3,        503.3,          2.0);
( 470470.2, 3751683.8,        504.9,        504.9,          2.0);          ( 470470.3, 3751664.3,
506.2,        506.2,          2.0);
( 470470.3, 3751642.4,        507.6,        507.6,          2.0);          ( 470470.5, 3751621.8,
508.5,        508.5,          2.0);
( 470470.2, 3751599.8,        509.0,        509.0,          2.0);          ( 470470.6, 3751578.8,
509.1,        509.1,          2.0);
( 470469.6, 3751555.9,        507.6,        507.6,          2.0);          ( 470470.0, 3751512.5,
504.8,        512.0,          2.0);
( 470468.6, 3751414.6,        501.8,        513.0,          2.0);          ( 470469.8, 3751385.2,
507.1,        513.0,          2.0);
( 470468.6, 3751358.9,        509.6,        509.6,          2.0);          ( 470462.9, 3751325.6,
511.9,        511.9,          2.0);
( 470462.0, 3751310.6,        512.6,        512.6,          2.0);          ( 470462.6, 3751296.6,
512.4,        512.4,          2.0);
( 470462.6, 3751283.3,        512.0,        512.0,          2.0);          ( 470462.6, 3751269.9,
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( 470462.9, 3751254.3,        509.6,        512.0,          2.0);          ( 470462.0, 3751240.7,
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( 470463.2, 3751227.6,        509.4,        509.4,          2.0);          ( 470756.4, 3751290.6,
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( 470797.7, 3751268.3,        507.7,        525.0,          2.0);          ( 470891.2, 3751226.4,
512.0,        512.0,          2.0);
( 470940.8, 3751191.8,        512.1,        512.1,          2.0);          ( 471000.6, 3750923.6,
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( 471077.9, 3750924.4,        524.8,        543.0,          2.0);          ( 471097.6, 3750924.4,
```

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( 471160.1, 3750928.8,    530.8,      543.0,       2.0);              ( 471181.1, 3750931.5,
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( 471201.7, 3750930.9,    533.3,      543.0,       2.0);              ( 471222.5, 3750931.5,
533.7,       543.0,       2.0);
( 471244.1, 3750931.2,    534.8,      543.0,       2.0);              ( 471264.4, 3750931.7,
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( 471284.4, 3750931.7,    536.5,      536.5,       2.0);              ( 471305.8, 3750931.7,
536.5,       536.5,       2.0);
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534.9,       534.9,       2.0);
( 471363.9, 3750929.0,    534.7,      534.7,       2.0);              ( 471382.0, 3750928.8,
534.8,       534.8,       2.0);
( 471400.9, 3750928.2,    535.0,      535.0,       2.0);              ( 471421.1, 3750928.0,
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( 471440.6, 3750928.1,    535.6,      535.6,       2.0);              ( 471461.8, 3750927.4,
535.7,       535.7,       2.0);
( 471479.8, 3750927.9,    535.9,      535.9,       2.0);              ( 471499.7, 3750927.6,
536.2,       536.2,       2.0);
( 471519.3, 3750928.8,    536.6,      549.0,       2.0);              ( 471537.0, 3750929.6,
538.0,       549.0,       2.0);
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541.7,       549.0,       2.0);
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( 471796.3, 3750967.9,    547.3,      547.3,       2.0);              ( 471796.7, 3750987.2,
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( 471795.9, 3751046.4,    541.1,      541.1,       2.0);              ( 471796.7, 3751073.0,
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( 471797.5, 3751143.8,    537.7,      537.7,       2.0);              ( 471833.0, 3751143.8,
537.0,       537.0,       2.0);
( 471867.4, 3751144.0,    534.9,      534.9,       2.0);              ( 471891.0, 3751144.4,
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( 471916.6, 3751144.2,    530.9,      530.9,       2.0);              ( 471939.5, 3751144.2,
529.4,       529.4,       2.0);
( 471963.1, 3751144.4,    525.8,      535.0,       2.0);              ( 471984.2, 3751144.0,
524.4,       533.0,       2.0);
( 471999.0, 3751163.4,    525.3,      536.0,       2.0);              ( 472000.2, 3751199.1,
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( 471999.8, 3751230.6,    532.9,      532.9,       2.0);              ( 472000.4, 3751251.5,
534.3,       534.3,       2.0);
( 472000.2, 3751281.1,    536.2,      536.2,       2.0);              ( 472002.0, 3751347.9,
537.0,       537.0,       2.0);
( 472036.9, 3751348.5,    536.6,      536.6,       2.0);              ( 472063.1, 3751349.3,
536.5,       536.5,       2.0);
( 472084.6, 3751348.3,    535.8,      535.8,       2.0);              ( 472104.9, 3751348.7,
534.6,       534.6,       2.0);
( 472127.3, 3751348.5,    533.0,      533.0,       2.0);              ( 472150.8, 3751349.7,
531.4,       531.4,       2.0);
( 472171.5, 3751349.5,    530.3,      530.3,       2.0);              ( 472194.1, 3751349.1,
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( 472222.6, 3751348.7,    525.4,      536.0,       2.0);              ( 472247.8, 3751349.5,
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( 472269.7, 3751349.1,    520.9,      536.0,       2.0);              ( 472290.4, 3751350.3,
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520.6,       532.0,       2.0);
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      ( 470935.3, 3752029.1,       508.7,        512.0,          2.0);          ( 470922.3, 3751998.9,
         506.1,        511.0,          2.0);
      ( 470910.3, 3751966.5,       508.0,        508.0,          2.0);          ( 470891.5, 3751915.4,
         510.8,        510.8,          2.0);
      ( 470880.6, 3751877.9,       512.3,        512.3,          2.0);          ( 470874.8, 3751848.1,
         513.4,        517.0,          2.0);
      ( 470871.7, 3751810.6,       517.1,        517.1,          2.0);          ( 470871.2, 3751779.3,
         517.1,        517.1,          2.0);
      ( 470872.2, 3751740.7,       515.6,        515.6,          2.0);          ( 470876.4, 3751710.4,
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      ( 470884.8, 3751671.8,       514.8,        514.8,          2.0);          ( 470900.4, 3751616.6,
         516.8,        516.8,          2.0);
      ( 470911.9, 3751582.7,       518.5,        518.5,          2.0);          ( 470919.7, 3751556.1,
         518.3,        518.3,          2.0);
      ( 470931.2, 3751524.2,       516.9,        516.9,          2.0);          ( 470940.0, 3751496.6,
         515.6,        515.6,          2.0);
      ( 470951.5, 3751461.1,       514.4,        514.4,          2.0);          ( 470962.0, 3751424.6,
         513.8,        513.8,          2.0);
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                                  *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)


      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1
      1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1
```

          NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
          INCLUDED IN THE DATA FILE.

                          *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                          ***
                                              (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23, 10.80,

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
52.    10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
75.    10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


F indicates top of profile (=1) or below (=0)
[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
*** AERMET - VERSION  16216 ***
 ***                                                           ***        17:36:11


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                          *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):    VOL1         , VOL2          ,
                              VOL3         , VOL4         , VOL5         ,
             VOL6        , VOL7        , VOL8        , VOL9        , VOL10         ,
             VOL11       , VOL12       , VOL13       ,
             VOL14       , VOL15       , VOL16       , VOL17       , VOL18         ,
             VOL19       , VOL20       , VOL21       ,
             VOL22       , VOL23       , VOL24       , VOL25       , VOL26         ,
             VOL27       , VOL28       ,  . . .       ,


                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                          ** CONC OF PM_10      IN
                          MICROGRAMS/M**3                           **


   X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD
      (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      472283.74   3752640.98      0.78635  (12121824)          472482.23
      3752398.04       0.82758  (12120224)
      472477.97   3752183.12      0.93851  (12120224)          472148.10
      3752531.53       1.21146  (12121824)
      472052.12   3752531.22      1.49420  (13121924)          471975.52
      3752531.22       1.69730  (13121924)
      471896.06   3752530.90      1.81477  (13121924)          471840.76
      3752529.94       1.86432  (13121924)
      471816.60   3752527.08      1.86946  (13121924)          471736.82
      3752557.91       1.76647  (13121924)
      471696.59   3752558.87      1.78994  (13121924)          471627.29
      3752556.22       1.91329  (13121924)
      471584.60   3752556.76      1.97331  (13121924)          471560.01
      3752556.22       1.98320  (13121924)
      471534.35   3752554.87      1.97106  (13121924)          471514.89
      3752554.87       1.94808  (13121924)
      471486.79   3752555.68      1.93860  (13121924)          471465.72
      3752555.41       1.92931  (13121924)
      471442.21   3752554.98      1.90012  (13121924)          471419.71
      3752552.46       1.89752  (13121924)
      471394.22   3752552.91      1.90065  (13121924)          471363.44
      3752552.46       1.92078  (13121924)
      471332.68   3752553.31      1.92735  (13121924)          471307.62
      3752552.94       1.93004  (13121924)
      471284.05   3752552.70      1.91951  (13121924)          471261.98
      3752552.70       1.91405  (13121924)
      471241.90   3752552.70      1.91539  (13121924)          471223.15
      3752552.86       1.92111  (13121924)
```

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471205.90    3752552.86        1.92837 (13121924)              471173.21
3752552.37        1.94366 (13121924)
471135.70    3752552.53        1.93649 (13121924)              471093.22
3752551.54        1.89112 (13121924)
471059.37    3752551.70        1.79025 (13121924)              471020.54
3752551.20        1.62763 (13121924)
470981.05    3752563.65        1.39054 (13121924)              470980.39
3752552.20        1.44673 (13121924)
470980.06    3752535.61        1.53867 (13121924)              470979.89
3752517.19        1.65430 (13121924)
470980.06    3752499.76        1.77684 (13121924)              470980.22
3752479.85        1.92673 (13121924)
470980.39    3752459.44        2.09207 (13121924)              470980.22
3752433.22        2.26946 (13121924)
470980.06    3752404.02        2.39522 (13121924)              470927.12
3752402.69        1.74463 (13121924)
470907.87    3752402.69        1.59296 (13121924)              470887.30
3752402.69        1.45761 (13121924)
470869.71    3752402.03        1.37117 (13121924)              470849.63
3752401.86        1.28473 (13121924)
470829.39    3752402.19        1.20822 (13121924)              470811.63
3752402.19        1.14892 (13121924)
470791.55    3752402.53        1.08776 (13121924)              470773.63
3752401.86        1.03895 (13121924)
470749.24    3752402.19        0.97768 (13121924)              470727.72
3752391.74        0.94078 (13121924)
470733.04    3752338.97        1.00451 (13121924)              470733.70
3752320.55        1.02224b (16120624)
470734.20    3752291.01        1.05028b (16120624)             470733.20
3752265.78        1.06753b (16120624)
470732.87    3752218.81        1.10347b (16120624)             470732.54
3752182.14        1.13134b (16120624)
470732.37    3752145.29        1.16210b (16120624)             470692.38
3752144.80        1.05851b (16120624)
470670.14    3752144.46        1.00702b (16120624)             470651.72
3752144.30        0.96849b (16120624)
470633.46    3752144.13        0.93085b (16120624)             470615.54
3752143.97        0.89600b (16120624)
470595.95    3752143.30        0.86041b (16120624)             470577.03
3752143.47        0.82905b (16120624)
470553.63    3752143.47        0.79300b (16120624)             470528.57
3752142.64        0.75576b (16120624)
470507.99    3752142.80        0.72578b (16120624)             470485.59
3752142.47        0.69523b (16120624)
470471.60    3752131.63        0.68611 (12122024)              470471.60
3752109.21        0.70456 (12122024)
470471.32    3752085.22        0.72197 (12122024)              470471.46
3752037.68        0.75619 (12122024)
470471.74    3752013.00        0.77237 (12122024)              470470.89
3751987.18        0.78801m (13010324)
470470.89    3751965.74        0.80336m (13010324)             470470.75
3751944.44        0.81785m (13010324)
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

                    PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,

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          VOL14          , VOL15          , VOL16          , VOL17          , VOL18          ,
          VOL19          , VOL20          , VOL21          ,
          VOL22          , VOL23          , VOL24          , VOL25          , VOL26          ,
          VOL27          , VOL28          , . . .          ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF PM_10     IN
                              MICROGRAMS/M**3                                    **


     X-COORD (M)  Y-COORD (M)        CONC      (YYMMDDHH)            X-COORD (M)  Y-COORD
       (M)          CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
     470470.61   3751924.27        0.82955m (13010324)             470470.47
       3751905.93       0.83887m (13010324)
     470470.89   3751884.06        0.85345m (13010324)             470470.61
       3751864.03       0.86336m (13010324)
     470470.33   3751844.00        0.87097m (13010324)             470470.19
       3751824.53       0.87518m (13010324)
     470470.33   3751805.77        0.88054m (13010324)             470470.33
       3751788.00       0.88679  (12010124)
     470470.33   3751761.19        0.91206  (12010124)             470471.03
       3751741.87       0.93082  (12010124)
     470470.05   3751722.82        0.94584  (12010124)             470470.19
       3751703.36       0.96182  (12010124)
     470470.19   3751683.75        0.97456  (12010124)             470470.33
       3751664.28       0.98524  (12010124)
     470470.33   3751642.41        0.99561  (12010124)             470470.47
       3751621.82       1.00226  (12010124)
     470470.19   3751599.81        1.00578  (12010124)             470470.61
       3751578.79       1.00729  (12010124)
     470469.62   3751555.94        1.00003  (12010124)             470470.05
       3751512.49       0.98388  (12010124)
     470468.64   3751414.59        0.94951  (13121524)             470469.76
       3751385.25       0.97047  (13121524)
     470468.65   3751358.95        0.97423  (13121524)             470462.93
       3751325.56       0.96665  (13121524)
     470461.98   3751310.62        0.96346  (13121524)             470462.61
       3751296.63       0.95965  (13121524)
     470462.61   3751283.28        0.95402  (13121524)             470462.61
       3751269.92       0.94663  (13121524)
     470462.93   3751254.35        0.93739  (13121524)             470461.98
       3751240.67       0.92852  (13121524)
     470463.25   3751227.64        0.92503  (13121524)             470756.39
       3751290.59       1.31415  (13121524)
     470797.72   3751268.33        1.34764  (13121524)             470891.19
       3751226.38       1.45708  (13121524)
     470940.78   3751191.82        1.46180  (13122424)             471000.61
       3750923.63       0.98112m (15020724)
     471029.26   3750923.63        1.00309  (15121524)             471056.29
       3750923.90       1.03858  (15121524)
     471077.91   3750924.44        1.06340  (15121524)             471097.64
       3750924.44       1.07820  (15121524)
     471118.18   3750924.98        1.09695  (15121524)             471138.99
       3750927.42       1.11712  (15121524)
     471160.07   3750928.77        1.14031  (12021624)             471181.15
       3750931.47       1.23003m (15020724)
     471201.69   3750930.93        1.28735m (15020724)             471222.50
       3750931.47       1.29002  (15022224)
     471244.13   3750931.20        1.34181  (15022224)             471264.40
       3750931.74       1.38292  (15022224)
     471284.40   3750931.74        1.40983  (15022224)             471305.75
       3750931.74       1.41342  (15022224)
     471324.67   3750930.93        1.38962  (15022224)             471343.05
       3750930.12       1.35312  (15022224)
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     471363.86   3750929.04        1.31907  (15022224)            471381.96
     3750928.77        1.29546  (15022224)
     471400.88   3750928.23        1.27060  (15022224)            471421.15
     3750927.96        1.24379  (15022224)
     471440.59   3750928.11        1.21440  (15022224)            471461.83
     3750927.45        1.18134  (15022224)
     471479.76   3750927.95        1.16097  (15022224)            471499.68
     3750927.62        1.14118  (15022224)
     471519.26   3750928.78        1.12942  (15022224)            471537.02
     3750929.61        1.16149  (15022224)
     471556.77   3750930.94        1.18122  (15022224)            471580.68
     3750934.09        1.22599  (15022224)
     471624.00   3750940.23        1.22499  (15022224)            471795.90
     3750950.11        1.08963  (13111624)
     471796.29   3750967.88        1.12565  (13111624)            471796.69
     3750987.22        1.18376b (16120624)
     471797.47   3751006.75        1.26845b (16120624)            471796.69
     3751025.30        1.34205b (16120624)
     471795.90   3751046.40        1.43757b (16120624)            471796.69
     3751072.96        1.54904b (16120624)
     471797.47   3751143.85        1.88367b (16120624)            471833.01
     3751143.85        1.82893b (16120624)
     471867.38   3751144.05        1.73059b (16120624)            471891.02
     3751144.44        1.61438b (16120624)
     471916.60   3751144.24        1.41581b (16120624)            471939.45
     3751144.24        1.36036b (16120624)
     471963.08   3751144.44        1.28874b (16120624)            471984.17
     3751144.05        1.24302b (16120624)
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▜▟ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:36:11

              PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

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                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP:   ALL      ***
                              INCLUDING SOURCE(S):    VOL1       , VOL2        ,
                              VOL3       , VOL4        , VOL5        ,
                  VOL6      , VOL7       , VOL8       , VOL9       , VOL10      ,
                  VOL11     , VOL12      , VOL13      ,
                  VOL14     , VOL15      , VOL16      , VOL17      , VOL18      ,
                  VOL19     , VOL20      , VOL21      ,
                  VOL22     , VOL23      , VOL24      , VOL25      , VOL26      ,
                  VOL27     , VOL28      ,  . . .     ,


                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                         ** CONC OF PM_10    IN
                         MICROGRAMS/M**3                          **


    X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)        X-COORD (M)  Y-COORD
    (M)        CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
     471999.02   3751163.38        1.27340b (16120624)            472000.19
     3751199.12        1.41683b (16120624)
     471999.80   3751230.56        1.60371b (16120624)            472000.38
     3751251.46        1.71332b (16120624)
     472000.19   3751281.15        1.81821b (16120624)            472001.95
     3751347.94        2.01008b (16120624)
     472036.90   3751348.52        1.86522b (16120624)            472063.07
     3751349.31        1.79151b (16120624)
     472084.56   3751348.33        1.71460b (16120624)            472104.87
     3751348.72        1.64026b (16120624)
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472127.33	3751348.52	1.55017b	(16120624)	472150.76
3751349.70		1.42983b	(16120624)	
472171.47	3751349.50	1.36875b	(16120624)	472194.12
3751349.11		1.29864b	(16120624)	
472222.63	3751348.72	1.21481b	(16120624)	472247.83
3751349.50		1.14192b	(16120624)	
472269.70	3751349.11	1.07695b	(16120624)	472290.40
3751350.28		1.04837b	(16120624)	
472313.64	3751350.48	1.01845b	(16120624)	472333.76
3751351.26		0.99262b	(16120624)	
472354.85	3751351.26	0.94102b	(16120624)	472377.70
3751351.06		0.90425b	(16120624)	
472401.72	3751351.06	0.86863b	(16120624)	472425.55
3751351.84		0.83550b	(16120624)	
472445.67	3751350.67	0.81298b	(16120624)	472463.24
3751350.87		0.79085b	(16120624)	
472484.14	3751350.87	0.76660b	(16120624)	472503.87
3751351.26		0.74699b	(16120624)	
472523.79	3751351.26	0.72979b	(16120624)	472543.32
3751351.26		0.71402b	(16120624)	
472563.24	3751352.24	0.69781b	(16120624)	472582.57
3751352.04		0.68209b	(16120624)	
472601.32	3751352.04	0.66721b	(16120624)	472606.79
3751367.27		0.66669b	(16120624)	
472607.57	3751396.37	0.67623b	(16120624)	472608.55
3751432.11		0.68926b	(16120624)	
472608.94	3751462.58	0.69790b	(16120624)	472609.52
3751497.15		0.70957b	(16120624)	
472610.70	3751553.78	0.72603b	(16120624)	472665.97
3751553.98		0.66930b	(16120624)	
472690.38	3751553.59	0.64655b	(16120624)	472713.50
3751554.27		0.62797b	(16120624)	
472734.64	3751554.04	0.61014b	(16120624)	472759.46
3751554.04		0.58983b	(16120624)	
472781.75	3751554.50	0.57357	(16051524)	472849.76
3751556.11		0.54383	(16051524)	
472871.82	3751556.11	0.53339	(16051524)	472895.25
3751555.65		0.52219	(16051524)	
472922.60	3751555.88	0.51042	(16051524)	473092.41
3751802.31		0.50259	(12050124)	
473204.80	3751856.81	0.46718	(12050124)	472991.21
3752083.31		0.52428	(12050124)	
473295.12	3752052.49	0.42370	(12050124)	473356.76
3752050.34		0.40594	(12050124)	
473495.10	3751996.58	0.38184	(12050124)	473486.50
3751917.74		0.39016	(12050124)	
473392.60	3752058.22	0.39473	(12050124)	473464.28
3752082.59		0.37234	(12050124)	
473550.29	3752087.61	0.35129	(12050124)	473584.69
3752089.76		0.34419	(12050124)	
472765.59	3752474.09	0.50485	(12120224)	470432.16
3750483.93		0.60857	(12122924)	
469244.06	3754182.82	0.11393	(15030124)	469596.75
3750785.65		0.40226	(13121524)	
470466.55	3750530.27	0.69333	(12122924)	469319.29
3749244.53		0.15110	(13010424)	
469229.64	3749502.19	0.18413	(13010424)	468465.38
3749582.33		0.16578	(12010424)	
471438.37	3750129.76	0.58083	(15022224)	471657.54
3749918.78		0.41517	(15022224)	
471732.91	3749916.52	0.38442	(15022224)	471710.30
3750132.80		0.47744	(15022224)	
471273.89	3750119.77	0.53865	(15022224)	470973.43
3752300.84		2.34417	(13121924)	
470973.95	3752278.41	2.40213	(13121924)	470973.95
3752235.65		2.49572	(13121924)	

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     470971.86   3752174.63        2.51558  (13121924)                  470967.17
       3752139.16        2.52257  (13121924)
     470962.47   3752110.48        2.53769  (13121924)                  470952.57
       3752077.10        2.54784  (13121924)
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🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:36:11

                    PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                        ** CONC OF PM_10   IN
                        MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
      (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - -
      470935.35   3752029.11   2.45202 (13121924)   470922.32
        3751998.86   2.36220 (13121924)
      470910.32   3751966.53   2.40422 (13121924)   470891.54
        3751915.42   2.52786 (13121924)
      470880.59   3751877.86   2.59386 (13121924)   470874.85
        3751848.14   2.65236m (13010324)
      470871.72   3751810.58   2.78248m (13010324)   470871.20
        3751779.29   2.66238m (13010324)
      470872.25   3751740.70   2.46755m (13010324)   470876.42
        3751710.45   2.39910m (13010324)
      470884.76   3751671.85   2.46625m (13010324)   470900.41
        3751616.57   2.68594m (13010324)
      470911.88   3751582.67   2.71847m (13010324)   470919.71
        3751556.07   2.65834m (13010324)
      470931.18   3751524.25   2.61816m (13010324)   470940.05
        3751496.61   2.61035m (13010324)
      470951.52   3751461.14   2.57909m (13010324)   470961.95
        3751424.64   2.44043m (13010324)

🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:36:11

                    PAGE 15
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                        ** CONC OF PM_10   IN
                        MICROGRAMS/M**3   **

                                        DATE

```
                                                                     NETWORK
GROUP ID                              AVERAGE CONC    (YYMMDDHH)         RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


ALL      HIGH   1ST HIGH VALUE IS      2.78248m ON 13010324: AT ( 470871.72,  3751810.58,
517.08,    517.08,    2.00)  DC



  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
■■ *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
  *** AERMET - VERSION  16216 ***
  ***                                                        ***         17:36:11


                  PAGE  16
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

  *** Message Summary : AERMOD Model Execution ***

   --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


     ******** FATAL ERROR MESSAGES ********
             ***  NONE  ***


     ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

     **********************************
     *** AERMOD Finishes Successfully ***
     **********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/25/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25\14064 Ops
PM25.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

```
     LOCATION VOL29          VOLUME      471577.888  3751616.698      529.000
     LOCATION VOL30          VOLUME      471724.580  3751620.663      533.750
     LOCATION VOL31          VOLUME      471941.049  3751865.677      534.600
     LOCATION VOL32          VOLUME      471795.151  3751684.890      537.260
     LOCATION VOL33          VOLUME      471577.888  3751434.325      531.060
     LOCATION VOL34          VOLUME      471389.965  3751431.946      537.260
     LOCATION VOL35          VOLUME      471202.041  3751467.628      526.830
     LOCATION VOL36          VOLUME      471065.657  3751504.895      521.960
     LOCATION VOL37          VOLUME      471656.388  3751514.411      529.480
     LOCATION VOL38          VOLUME      471522.384  3751324.108      529.000
     LOCATION VOL39          VOLUME      471332.874  3751322.522      529.530
     LOCATION VOL40          VOLUME      471282.920  3751321.729      528.170
     LOCATION VOL41          VOLUME      471233.758  3751388.335      528.470
     LOCATION VOL48          VOLUME      471084.506  3752407.221      506.810
** Source Parameters **
     SRCPARAM VOL1       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL2       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL3       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL4       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL5       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL6       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL7       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL8       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL9       0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL10      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL11      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL12      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL13      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL14      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL15      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL16      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL17      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL18      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL19      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL20      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL21      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL22      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL23      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL24      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL25      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL26      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL27      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL28      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL29      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL30      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL31      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL32      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL33      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL34      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL35      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL36      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL37      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL38      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL39      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL40      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL41      0.0025955563      5.000      43.702      1.400
     SRCPARAM VOL48      0.0025955563      5.000      43.702      1.400
     URBANSRC ALL
     SRCGROUP ALL
SO FINISHED
**
*******************************************
** AERMOD Receptor Pathway
*******************************************
**
**
```

```
RE STARTING
    INCLUDED "14064 Ops PM25.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 24 1ST
** Auto-Generated Plotfiles
    PLOTFILE 24 ALL 1ST "14064 OPS PM25.AD\24H1GALL.PLT" 31
    SUMMFILE "14064 Ops PM25.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)



     ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***



     ********    WARNING MESSAGES    ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 ▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        17:43:41


                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                         ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
        * Model Is Setup For Calculation of Average CONCentration Values.
        * NO GAS DEPOSITION Data Provided.
        * NO PARTICLE DEPOSITION Data Provided.
        * Model Uses NO DRY DEPLETION. DDPLETE  =  F
        * Model Uses NO WET DEPLETION. WETDPLT  =  F
        * Stack-tip Downwash.
        * Model Accounts for ELEVated Terrain Effects.
        * Use Calms Processing Routine.
        * Use Missing Data Processing Routine.
        * No Exponential Decay.
        * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
          for Total of    1 Urban Area(s):
     Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
        * Urban Roughness Length of 1.0 Meter Used.
        * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        * CCVR_Sub - Meteorological data includes CCVR substitutions
        * TEMP_Sub - Meteorological data includes TEMP substitutions
        * Model Accepts FLAGPOLE Receptor . Heights.
        * The User Specified a Pollutant Type of: PM_2.5

**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:      42 Source(s);        1 Source Group(s); and     258 Receptor(s)

                with:       0 POINT(s), including
                            0 POINTCAP(s) and       0 POINTHOR(s)
                and:       42 VOLUME source(s)
                and:        0 AREA type source(s)
                and:        0 LINE source(s)
                and:        0 RLINE/RLINEXT source(s)
                and:        0 OPENPIT source(s)
                and:        0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:        0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                               ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops
PM25.err
**File for Summary of Results:   14064 Ops
PM25.sum
```

🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                       PAGE   2
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY							

- - - - - - - - - - - - -

SOURCE ID	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.25956E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.25956E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.25956E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.25956E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.25956E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.25956E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.25956E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.25956E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.25956E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.25956E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.25956E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.25956E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.25956E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.25956E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.25956E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.25956E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.25956E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.25956E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.25956E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.25956E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.25956E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.25956E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.25956E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40

```
VOL24              0    0.25956E-02  471093.4 3751841.9    515.6     5.00     43.70      1.40
 YES
VOL25              0    0.25956E-02  470978.4 3751841.9    518.1     5.00     43.70      1.40
 YES
VOL26              0    0.25956E-02  471014.1 3751654.8    520.4     5.00     43.70      1.40
 YES
VOL27              0    0.25956E-02  471201.2 3751654.8    525.1     5.00     43.70      1.40
 YES
VOL28              0    0.25956E-02  471389.2 3751619.1    534.9     5.00     43.70      1.40
 YES
VOL29              0    0.25956E-02  471577.9 3751616.7    529.0     5.00     43.70      1.40
 YES
VOL30              0    0.25956E-02  471724.6 3751620.7    533.8     5.00     43.70      1.40
 YES
VOL31              0    0.25956E-02  471941.0 3751865.7    534.6     5.00     43.70      1.40
 YES
VOL32              0    0.25956E-02  471795.2 3751684.9    537.3     5.00     43.70      1.40
 YES
VOL33              0    0.25956E-02  471577.9 3751434.3    531.1     5.00     43.70      1.40
 YES
VOL34              0    0.25956E-02  471390.0 3751431.9    537.3     5.00     43.70      1.40
 YES
VOL35              0    0.25956E-02  471202.0 3751467.6    526.8     5.00     43.70      1.40
 YES
VOL36              0    0.25956E-02  471065.7 3751504.9    522.0     5.00     43.70      1.40
 YES
VOL37              0    0.25956E-02  471656.4 3751514.4    529.5     5.00     43.70      1.40
 YES
VOL38              0    0.25956E-02  471522.4 3751324.1    529.0     5.00     43.70      1.40
 YES
VOL39              0    0.25956E-02  471332.9 3751322.5    529.5     5.00     43.70      1.40
 YES
VOL40              0    0.25956E-02  471282.9 3751321.7    528.2     5.00     43.70      1.40
 YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                      PAGE   3
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.25956E-02	471233.8	3751388.3	528.5	5.00	43.70	1.40
YES								
VOL48	0	0.25956E-02	471084.5	3752407.2	506.8	5.00	43.70	1.40
YES								

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41
                      PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                           *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                              SOURCE IDs
 -----------                                              ----------


  ALL        VOL1       , VOL2       , VOL3       , VOL4       , VOL5       , VOL6       ,
  VOL7       , VOL8       ,

             VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
             VOL15      , VOL16      ,

             VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
             VOL23      , VOL24      ,

             VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
             VOL31      , VOL32      ,

             VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
             VOL39      , VOL40      ,

             VOL41      , VOL48      ,
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                    PAGE   5
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*


```
                           *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                              SOURCE IDs
  --------   ---------                              ----------


             2189641.  VOL1       , VOL2       , VOL3       , VOL4       , VOL5       ,
             VOL6       , VOL7       ,
 VOL8       ,

             VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
             VOL15      , VOL16      ,

             VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
             VOL23      , VOL24      ,

             VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
             VOL31      , VOL32      ,

             VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
             VOL39      , VOL40      ,

             VOL41      , VOL48      ,
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                    PAGE   6
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                           *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                      (METERS)

```
                            500.9,       500.9,        2.0);
  ( 470596.0, 3752143.3,     500.2,       500.2,        2.0);          ( 470577.0, 3752143.5,
500.0,       500.0,        2.0);
  ( 470553.6, 3752143.5,     499.7,       499.7,        2.0);          ( 470528.6, 3752142.6,
498.8,       498.8,        2.0);
  ( 470508.0, 3752142.8,     497.6,       497.6,        2.0);          ( 470485.6, 3752142.5,
496.3,       496.3,        2.0);
  ( 470471.6, 3752131.6,     496.1,       496.1,        2.0);          ( 470471.6, 3752109.2,
497.3,       497.3,        2.0);
  ( 470471.3, 3752085.2,     498.1,       498.1,        2.0);          ( 470471.5, 3752037.7,
499.7,       499.7,        2.0);
  ( 470471.7, 3752013.0,     500.0,       500.0,        2.0);          ( 470470.9, 3751987.2,
500.1,       500.1,        2.0);
  ( 470470.9, 3751965.7,     500.1,       500.1,        2.0);          ( 470470.8, 3751944.4,
500.1,       500.1,        2.0);
  ( 470470.6, 3751924.3,     499.6,       499.6,        2.0);          ( 470470.5, 3751905.9,
499.0,       499.0,        2.0);
  ( 470470.9, 3751884.1,     499.1,       499.1,        2.0);          ( 470470.6, 3751864.0,
498.6,       498.6,        2.0);
  ( 470470.3, 3751844.0,     497.9,       497.9,        2.0);          ( 470470.2, 3751824.5,
496.6,       496.6,        2.0);
  ( 470470.3, 3751805.8,     495.7,       499.0,        2.0);          ( 470470.3, 3751788.0,
495.1,       502.0,        2.0);
  ( 470470.3, 3751761.2,     497.6,       497.6,        2.0);          ( 470471.0, 3751741.9,
499.5,       499.5,        2.0);
```

🅵🆁 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:43:41

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)

```
  ( 470470.0, 3751722.8,     501.4,       501.4,        2.0);          ( 470470.2, 3751703.4,
503.3,       503.3,        2.0);
  ( 470470.2, 3751683.8,     504.9,       504.9,        2.0);          ( 470470.3, 3751664.3,
506.2,       506.2,        2.0);
  ( 470470.3, 3751642.4,     507.6,       507.6,        2.0);          ( 470470.5, 3751621.8,
508.5,       508.5,        2.0);
  ( 470470.2, 3751599.8,     509.0,       509.0,        2.0);          ( 470470.6, 3751578.8,
509.1,       509.1,        2.0);
  ( 470469.6, 3751555.9,     507.6,       507.6,        2.0);          ( 470470.0, 3751512.5,
504.8,       512.0,        2.0);
  ( 470468.6, 3751414.6,     501.8,       513.0,        2.0);          ( 470469.8, 3751385.2,
507.1,       513.0,        2.0);
  ( 470468.6, 3751358.9,     509.6,       509.6,        2.0);          ( 470462.9, 3751325.6,
511.9,       511.9,        2.0);
  ( 470462.0, 3751310.6,     512.6,       512.6,        2.0);          ( 470462.6, 3751296.6,
512.4,       512.4,        2.0);
  ( 470462.6, 3751283.3,     512.0,       512.0,        2.0);          ( 470462.6, 3751269.9,
511.1,       511.1,        2.0);
  ( 470462.9, 3751254.3,     509.6,       512.0,        2.0);          ( 470462.0, 3751240.7,
508.9,       508.9,        2.0);
  ( 470463.2, 3751227.6,     509.4,       509.4,        2.0);          ( 470756.4, 3751290.6,
507.7,       525.0,        2.0);
  ( 470797.7, 3751268.3,     507.7,       525.0,        2.0);          ( 470891.2, 3751226.4,
512.0,       512.0,        2.0);
  ( 470940.8, 3751191.8,     512.1,       512.1,        2.0);          ( 471000.6, 3750923.6,
523.8,       523.8,        2.0);
  ( 471029.3, 3750923.6,     523.7,       523.7,        2.0);          ( 471056.3, 3750923.9,
524.2,       542.0,        2.0);
  ( 471077.9, 3750924.4,     524.8,       543.0,        2.0);          ( 471097.6, 3750924.4,
```

```
525.7,      543.0,      2.0);
( 471118.2, 3750925.0,      528.0,      543.0,      2.0);          ( 471139.0, 3750927.4,
529.8,      543.0,      2.0);
( 471160.1, 3750928.8,      530.8,      543.0,      2.0);          ( 471181.1, 3750931.5,
532.3,      543.0,      2.0);
( 471201.7, 3750930.9,      533.3,      543.0,      2.0);          ( 471222.5, 3750931.5,
533.7,      543.0,      2.0);
( 471244.1, 3750931.2,      534.8,      543.0,      2.0);          ( 471264.4, 3750931.7,
535.7,      538.0,      2.0);
( 471284.4, 3750931.7,      536.5,      536.5,      2.0);          ( 471305.8, 3750931.7,
536.5,      536.5,      2.0);
( 471324.7, 3750930.9,      535.8,      535.8,      2.0);          ( 471343.0, 3750930.1,
534.9,      534.9,      2.0);
( 471363.9, 3750929.0,      534.7,      534.7,      2.0);          ( 471382.0, 3750928.8,
534.8,      534.8,      2.0);
( 471400.9, 3750928.2,      535.0,      535.0,      2.0);          ( 471421.1, 3750928.0,
535.4,      535.4,      2.0);
( 471440.6, 3750928.1,      535.6,      535.6,      2.0);          ( 471461.8, 3750927.4,
535.7,      535.7,      2.0);
( 471479.8, 3750927.9,      535.9,      535.9,      2.0);          ( 471499.7, 3750927.6,
536.2,      536.2,      2.0);
( 471519.3, 3750928.8,      536.6,      549.0,      2.0);          ( 471537.0, 3750929.6,
538.0,      549.0,      2.0);
( 471556.8, 3750930.9,      539.6,      549.0,      2.0);          ( 471580.7, 3750934.1,
541.7,      549.0,      2.0);
( 471624.0, 3750940.2,      545.0,      549.0,      2.0);          ( 471795.9, 3750950.1,
548.4,      548.4,      2.0);
( 471796.3, 3750967.9,      547.3,      547.3,      2.0);          ( 471796.7, 3750987.2,
545.3,      547.0,      2.0);
( 471797.5, 3751006.8,      542.7,      549.0,      2.0);          ( 471796.7, 3751025.3,
542.0,      547.0,      2.0);
( 471795.9, 3751046.4,      541.1,      541.1,      2.0);          ( 471796.7, 3751073.0,
540.1,      540.1,      2.0);
( 471797.5, 3751143.8,      537.7,      537.7,      2.0);          ( 471833.0, 3751143.8,
537.0,      537.0,      2.0);
( 471867.4, 3751144.0,      534.9,      534.9,      2.0);          ( 471891.0, 3751144.4,
532.9,      532.9,      2.0);
( 471916.6, 3751144.2,      530.9,      530.9,      2.0);          ( 471939.5, 3751144.2,
529.4,      529.4,      2.0);
( 471963.1, 3751144.4,      525.8,      535.0,      2.0);          ( 471984.2, 3751144.0,
524.4,      533.0,      2.0);
( 471999.0, 3751163.4,      525.3,      536.0,      2.0);          ( 472000.2, 3751199.1,
530.8,      530.8,      2.0);
( 471999.8, 3751230.6,      532.9,      532.9,      2.0);          ( 472000.4, 3751251.5,
534.3,      534.3,      2.0);
( 472000.2, 3751281.1,      536.2,      536.2,      2.0);          ( 472002.0, 3751347.9,
537.0,      537.0,      2.0);
( 472036.9, 3751348.5,      536.6,      536.6,      2.0);          ( 472063.1, 3751349.3,
536.5,      536.5,      2.0);
( 472084.6, 3751348.3,      535.8,      535.8,      2.0);          ( 472104.9, 3751348.7,
534.6,      534.6,      2.0);
( 472127.3, 3751348.5,      533.0,      533.0,      2.0);          ( 472150.8, 3751349.7,
531.4,      531.4,      2.0);
( 472171.5, 3751349.5,      530.3,      530.3,      2.0);          ( 472194.1, 3751349.1,
528.2,      531.0,      2.0);
( 472222.6, 3751348.7,      525.4,      536.0,      2.0);          ( 472247.8, 3751349.5,
523.2,      536.0,      2.0);
( 472269.7, 3751349.1,      520.9,      536.0,      2.0);          ( 472290.4, 3751350.3,
520.7,      535.0,      2.0);
( 472313.6, 3751350.5,      520.9,      532.0,      2.0);          ( 472333.8, 3751351.3,
520.6,      532.0,      2.0);
```

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      512.0,     512.0,       2.0);
( 470935.3, 3752029.1,     508.7,     512.0,       2.0);      ( 470922.3, 3751998.9,
506.1,     511.0,       2.0);
( 470910.3, 3751966.5,     508.0,     508.0,       2.0);      ( 470891.5, 3751915.4,
510.8,     510.8,       2.0);
( 470880.6, 3751877.9,     512.3,     512.3,       2.0);      ( 470874.8, 3751848.1,
513.4,     517.0,       2.0);
( 470871.7, 3751810.6,     517.1,     517.1,       2.0);      ( 470871.2, 3751779.3,
517.1,     517.1,       2.0);
( 470872.2, 3751740.7,     515.6,     515.6,       2.0);      ( 470876.4, 3751710.4,
514.9,     514.9,       2.0);
( 470884.8, 3751671.8,     514.8,     514.8,       2.0);      ( 470900.4, 3751616.6,
516.8,     516.8,       2.0);
( 470911.9, 3751582.7,     518.5,     518.5,       2.0);      ( 470919.7, 3751556.1,
518.3,     518.3,       2.0);
( 470931.2, 3751524.2,     516.9,     516.9,       2.0);      ( 470940.0, 3751496.6,
515.6,     515.6,       2.0);
( 470951.5, 3751461.1,     514.4,     514.4,       2.0);      ( 470962.0, 3751424.6,
513.8,     513.8,       2.0);
```

                    PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                (1=YES; 0=NO)

        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
        1   1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

           NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
           INCLUDED IN THE DATA FILE.

                          *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                          ***

                                          (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23,   10.80,

                    PAGE   10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
52.    10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.    37.0  0.15   2.40   1.00    2.06
75.    10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
*** AERMET - VERSION  16216 ***
 ***                                                             ***      17:43:41


                      PAGE  11
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                             INCLUDING SOURCE(S):    VOL1        , VOL2         ,
                             VOL3        , VOL4        , VOL5        ,
              VOL6        , VOL7        , VOL8        , VOL9        , VOL10        ,
              VOL11       , VOL12       , VOL13       ,
              VOL14       , VOL15       , VOL16       , VOL17        , VOL18        ,
              VOL19       , VOL20       , VOL21       ,
              VOL22       , VOL23       , VOL24       , VOL25        , VOL26        ,
              VOL27       , VOL28       , . . .      ,


                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                       ** CONC OF PM_2.5   IN
                       MICROGRAMS/M**3                              **


    X-COORD (M)  Y-COORD (M)        CONC      (YYMMDDHH)           X-COORD (M)  Y-COORD
     (M)        CONC      (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
      472283.74   3752640.98      0.24807  (12121824)            472482.23
      3752398.04       0.26107  (12120224)
      472477.97   3752183.12      0.29607  (12120224)            472148.10
      3752531.53       0.38218  (12121824)
      472052.12   3752531.22      0.47137  (13121924)            471975.52
      3752531.22       0.53544  (13121924)
      471896.06   3752530.90      0.57250  (13121924)            471840.76
      3752529.94       0.58813  (13121924)
      471816.60   3752527.08      0.58975  (13121924)            471736.82
      3752557.91       0.55726  (13121924)
      471696.59   3752558.87      0.56467  (13121924)            471627.29
      3752556.22       0.60358  (13121924)
      471584.60   3752556.76      0.62251  (13121924)            471560.01
      3752556.22       0.62563  (13121924)
      471534.35   3752554.87      0.62180  (13121924)            471514.89
      3752554.87       0.61455  (13121924)
      471486.79   3752555.68      0.61156  (13121924)            471465.72
      3752555.41       0.60863  (13121924)
      471442.21   3752554.98      0.59942  (13121924)            471419.71
      3752552.46       0.59861  (13121924)
      471394.22   3752552.91      0.59959  (13121924)            471363.44
      3752552.46       0.60594  (13121924)
      471332.68   3752553.31      0.60801  (13121924)            471307.62
      3752552.94       0.60886  (13121924)
      471284.05   3752552.70      0.60554  (13121924)            471261.98
      3752552.70       0.60382  (13121924)
      471241.90   3752552.70      0.60424  (13121924)            471223.15
      3752552.86       0.60605  (13121924)
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```
471205.90    3752552.86         0.60834  (13121924)                471173.21
3752552.37         0.61316  (13121924)
471135.70    3752552.53         0.61090  (13121924)                471093.22
3752551.54         0.59659  (13121924)
471059.37    3752551.70         0.56476  (13121924)                471020.54
3752551.20         0.51346  (13121924)
470981.05    3752563.65         0.43867  (13121924)                470980.39
3752552.20         0.45639  (13121924)
470980.06    3752535.61         0.48540  (13121924)                470979.89
3752517.19         0.52188  (13121924)
470980.06    3752499.76         0.56053  (13121924)                470980.22
3752479.85         0.60782  (13121924)
470980.39    3752459.44         0.65998  (13121924)                470980.22
3752433.22         0.71594  (13121924)
470980.06    3752404.02         0.75561  (13121924)                470927.12
3752402.69         0.55037  (13121924)
470907.87    3752402.69         0.50253  (13121924)                470887.30
3752402.69         0.45983  (13121924)
470869.71    3752402.03         0.43256  (13121924)                470849.63
3752401.86         0.40529  (13121924)
470829.39    3752402.19         0.38115  (13121924)                470811.63
3752402.19         0.36245  (13121924)
470791.55    3752402.53         0.34315  (13121924)                470773.63
3752401.86         0.32775  (13121924)
470749.24    3752402.19         0.30843  (13121924)                470727.72
3752391.74         0.29679  (13121924)
470733.04    3752338.97         0.31689  (13121924)                470733.70
3752320.55         0.32248b (16120624)
470734.20    3752291.01         0.33133b (16120624)                470733.20
3752265.78         0.33677b (16120624)
470732.87    3752218.81         0.34811b (16120624)                470732.54
3752182.14         0.35690b (16120624)
470732.37    3752145.29         0.36660b (16120624)                470692.38
3752144.80         0.33392b (16120624)
470670.14    3752144.46         0.31768b (16120624)                470651.72
3752144.30         0.30553b (16120624)
470633.46    3752144.13         0.29365b (16120624)                470615.54
3752143.97         0.28266b (16120624)
470595.95    3752143.30         0.27143b (16120624)                470577.03
3752143.47         0.26154b (16120624)
470553.63    3752143.47         0.25016b (16120624)                470528.57
3752142.64         0.23842b (16120624)
470507.99    3752142.80         0.22896b (16120624)                470485.59
3752142.47         0.21932b (16120624)
470471.60    3752131.63         0.21645  (12122024)                470471.60
3752109.21         0.22226  (12122024)
470471.32    3752085.22         0.22776  (12122024)                470471.46
3752037.68         0.23855  (12122024)
470471.74    3752013.00         0.24366  (12122024)                470470.89
3751987.18         0.24859m (13010324)
470470.89    3751965.74         0.25343m (13010324)                470470.75
3751944.44         0.25801m (13010324)
```

🮰🮰 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                    PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,

```
           VOL14          , VOL15          , VOL16          , VOL17          , VOL18          ,
           VOL19          , VOL20          , VOL21          ,
           VOL22          , VOL23          , VOL24          , VOL25          , VOL26          ,
           VOL27          , VOL28          ,  . . .         ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                ** CONC OF PM_2.5   IN
                                MICROGRAMS/M**3                                      **


     X-COORD (M)  Y-COORD (M)         CONC      (YYMMDDHH)              X-COORD (M)  Y-COORD
        (M)         CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - - -
     470470.61   3751924.27         0.26169m (13010324)              470470.47
       3751905.93       0.26464m (13010324)
     470470.89   3751884.06         0.26923m (13010324)              470470.61
       3751864.03       0.27236m (13010324)
     470470.33   3751844.00         0.27476m (13010324)              470470.19
       3751824.53       0.27609m (13010324)
     470470.33   3751805.77         0.27778m (13010324)              470470.33
       3751788.00       0.27975  (12010124)
     470470.33   3751761.19         0.28772  (12010124)              470471.03
       3751741.87       0.29364  (12010124)
     470470.05   3751722.82         0.29838  (12010124)              470470.19
       3751703.36       0.30342  (12010124)
     470470.19   3751683.75         0.30744  (12010124)              470470.33
       3751664.28       0.31081  (12010124)
     470470.33   3751642.41         0.31408  (12010124)              470470.47
       3751621.82       0.31618  (12010124)
     470470.19   3751599.81         0.31729  (12010124)              470470.61
       3751578.79       0.31777  (12010124)
     470469.62   3751555.94         0.31548  (12010124)              470470.05
       3751512.49       0.31038  (12010124)
     470468.64   3751414.59         0.29954  (13121524)              470469.76
       3751385.25       0.30615  (13121524)
     470468.65   3751358.95         0.30734  (13121524)              470462.93
       3751325.56       0.30495  (13121524)
     470461.98   3751310.62         0.30394  (13121524)              470462.61
       3751296.63       0.30274  (13121524)
     470462.61   3751283.28         0.30096  (13121524)              470462.61
       3751269.92       0.29863  (13121524)
     470462.93   3751254.35         0.29572  (13121524)              470461.98
       3751240.67       0.29292  (13121524)
     470463.25   3751227.64         0.29182  (13121524)              470756.39
       3751290.59       0.41457  (13121524)
     470797.72   3751268.33         0.42514  (13121524)              470891.19
       3751226.38       0.45966  (13121524)
     470940.78   3751191.82         0.46115  (13122424)              471000.61
       3750923.63       0.30951m (15020724)
     471029.26   3750923.63         0.31644  (15121524)              471056.29
       3750923.90       0.32764  (15121524)
     471077.91   3750924.44         0.33547  (15121524)              471097.64
       3750924.44       0.34014  (15121524)
     471118.18   3750924.98         0.34605  (15121524)              471138.99
       3750927.42       0.35242  (15121524)
     471160.07   3750928.77         0.35973  (12021624)              471181.15
       3750931.47       0.38803m (15020724)
     471201.69   3750930.93         0.40612m (15020724)              471222.50
       3750931.47       0.40696  (15022224)
     471244.13   3750931.20         0.42330  (15022224)              471264.40
       3750931.74       0.43627  (15022224)
     471284.40   3750931.74         0.44476  (15022224)              471305.75
       3750931.74       0.44589  (15022224)
     471324.67   3750930.93         0.43838  (15022224)              471343.05
       3750930.12       0.42686  (15022224)
```

```
   471363.86    3750929.04        0.41612  (15022224)              471381.96
   3750928.77        0.40867  (15022224)
   471400.88    3750928.23        0.40083  (15022224)              471421.15
   3750927.96        0.39237  (15022224)
   471440.59    3750928.11        0.38310  (15022224)              471461.83
   3750927.45        0.37267  (15022224)
   471479.76    3750927.95        0.36625  (15022224)              471499.68
   3750927.62        0.36000  (15022224)
   471519.26    3750928.78        0.35629  (15022224)              471537.02
   3750929.61        0.36641  (15022224)
   471556.77    3750930.94        0.37263  (15022224)              471580.68
   3750934.09        0.38676  (15022224)
   471624.00    3750940.23        0.38644  (15022224)              471795.90
   3750950.11        0.34374  (13111624)
   471796.29    3750967.88        0.35511  (13111624)              471796.69
   3750987.22        0.37344b (16120624)
   471797.47    3751006.75        0.40015b (16120624)              471796.69
   3751025.30        0.42337b (16120624)
   471795.90    3751046.40        0.45350b (16120624)              471796.69
   3751072.96        0.48867b (16120624)
   471797.47    3751143.85        0.59424b (16120624)              471833.01
   3751143.85        0.57697b (16120624)
   471867.38    3751144.05        0.54594b (16120624)              471891.02
   3751144.44        0.50928b (16120624)
   471916.60    3751144.24        0.44664b (16120624)              471939.45
   3751144.24        0.42915b (16120624)
   471963.08    3751144.44        0.40656b (16120624)              471984.17
   3751144.05        0.39213b (16120624)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:43:41

                PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                             VOL3   , VOL4   , VOL5   ,
                 VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                 VOL11   , VOL12   , VOL13   ,
                 VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                 VOL19   , VOL20   , VOL21   ,
                 VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                 VOL27   , VOL28   , . . .   ,

                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_2.5   IN
                         MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
   471999.02   3751163.38   0.40172b (16120624)   472000.19
   3751199.12   0.44696b (16120624)
   471999.80   3751230.56   0.50592b (16120624)   472000.38
   3751251.46   0.54050b (16120624)
   472000.19   3751281.15   0.57358b (16120624)   472001.95
   3751347.94   0.63411b (16120624)
   472036.90   3751348.52   0.58842b (16120624)   472063.07
   3751349.31   0.56516b (16120624)
   472084.56   3751348.33   0.54090b (16120624)   472104.87
   3751348.72   0.51745b (16120624)

472127.33	3751348.52	0.48903b	(16120624)	472150.76
3751349.70		0.45106b	(16120624)	
472171.47	3751349.50	0.43179b	(16120624)	472194.12
3751349.11		0.40968b	(16120624)	
472222.63	3751348.72	0.38323b	(16120624)	472247.83
3751349.50		0.36024b	(16120624)	
472269.70	3751349.11	0.33974b	(16120624)	472290.40
3751350.28		0.33072b	(16120624)	
472313.64	3751350.48	0.32129b	(16120624)	472333.76
3751351.26		0.31314b	(16120624)	
472354.85	3751351.26	0.29686b	(16120624)	472377.70
3751351.06		0.28526b	(16120624)	
472401.72	3751351.06	0.27402b	(16120624)	472425.55
3751351.84		0.26357b	(16120624)	
472445.67	3751350.67	0.25647b	(16120624)	472463.24
3751350.87		0.24949b	(16120624)	
472484.14	3751350.87	0.24184b	(16120624)	472503.87
3751351.26		0.23565b	(16120624)	
472523.79	3751351.26	0.23022b	(16120624)	472543.32
3751351.26		0.22525b	(16120624)	
472563.24	3751352.24	0.22013b	(16120624)	472582.57
3751352.04		0.21518b	(16120624)	
472601.32	3751352.04	0.21048b	(16120624)	472606.79
3751367.27		0.21032b	(16120624)	
472607.57	3751396.37	0.21333b	(16120624)	472608.55
3751432.11		0.21744b	(16120624)	
472608.94	3751462.58	0.22016b	(16120624)	472609.52
3751497.15		0.22385b	(16120624)	
472610.70	3751553.78	0.22904b	(16120624)	472665.97
3751553.98		0.21114b	(16120624)	
472690.38	3751553.59	0.20397b	(16120624)	472713.50
3751554.27		0.19810b	(16120624)	
472734.64	3751554.04	0.19248b	(16120624)	472759.46
3751554.04		0.18607b	(16120624)	
472781.75	3751554.50	0.18094	(16051524)	472849.76
3751556.11		0.17156	(16051524)	
472871.82	3751556.11	0.16827	(16051524)	472895.25
3751555.65		0.16473	(16051524)	
472922.60	3751555.88	0.16102	(16051524)	473092.41
3751802.31		0.15855	(12050124)	
473204.80	3751856.81	0.14738	(12050124)	472991.21
3752083.31		0.16539	(12050124)	
473295.12	3752052.49	0.13366	(12050124)	473356.76
3752050.34		0.12806	(12050124)	
473495.10	3751996.58	0.12046	(12050124)	473486.50
3751917.74		0.12308	(12050124)	
473392.60	3752058.22	0.12452	(12050124)	473464.28
3752082.59		0.11746	(12050124)	
473550.29	3752087.61	0.11082	(12050124)	473584.69
3752089.76		0.10858	(12050124)	
472765.59	3752474.09	0.15926	(12120224)	470432.16
3750483.93		0.19198	(12122924)	
469244.06	3754182.82	0.03594	(15030124)	469596.75
3750785.65		0.12690	(13121524)	
470466.55	3750530.27	0.21872	(12122924)	469319.29
3749244.53		0.04767	(13010424)	
469229.64	3749502.19	0.05809	(13010424)	468465.38
3749582.33		0.05230	(12010424)	
471438.37	3750129.76	0.18323	(15022224)	471657.54
3749918.78		0.13097	(15022224)	
471732.91	3749916.52	0.12127	(15022224)	471710.30
3750132.80		0.15062	(15022224)	
471273.89	3750119.77	0.16993	(15022224)	470973.43
3752300.84		0.73951	(13121924)	
470973.95	3752278.41	0.75779	(13121924)	470973.95
3752235.65		0.78732	(13121924)	

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        470971.86   3752174.63        0.79358  (13121924)              470967.17
        3752139.16        0.79579  (13121924)
        470962.47   3752110.48        0.80056  (13121924)              470952.57
        3752077.10        0.80376  (13121924)
```
▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:43:41

                PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                                SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                   VOL3   , VOL4   , VOL5   ,
                   VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                   VOL11   , VOL12   , VOL13   ,
                   VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                   VOL19   , VOL20   , VOL21   ,
                   VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                   VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_2.5   IN
                         MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
    (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - -
        470935.35   3752029.11   0.77353 (13121924)   470922.32
        3751998.86   0.74520 (13121924)
        470910.32   3751966.53   0.75845 (13121924)   470891.54
        3751915.42   0.79746 (13121924)
        470880.59   3751877.86   0.81828 (13121924)   470874.85
        3751848.14   0.83673m (13010324)
        470871.72   3751810.58   0.87778m (13010324)   470871.20
        3751779.29   0.83989m (13010324)
        470872.25   3751740.70   0.77843m (13010324)   470876.42
        3751710.45   0.75684m (13010324)
        470884.76   3751671.85   0.77802m (13010324)   470900.41
        3751616.57   0.84733m (13010324)
        470911.88   3751582.67   0.85759m (13010324)   470919.71
        3751556.07   0.83862m (13010324)
        470931.18   3751524.25   0.82594m (13010324)   470940.05
        3751496.61   0.82348m (13010324)
        470951.52   3751461.14   0.81362m (13010324)   470961.95
        3751424.64   0.76988m (13010324)
```
▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***          17:43:41


                PAGE  15
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***


                         ** CONC OF PM_2.5   IN
                         MICROGRAMS/M**3                          **


                                        DATE

ALL      HIGH   1ST HIGH VALUE IS      0.87778m ON 13010324: AT (  470871.72,  3751810.58,
517.08,   517.08,   2.00)  DC


  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                         ***        17:43:41


                   PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
            ***   NONE   ***


    ********   WARNING MESSAGES   ********
 ME W186    146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187    146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    **********************************
    *** AERMOD Finishes Successfully ***
    **********************************

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/2/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops CO Mit\14064 Ops
CO Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1 8
   URBANOPT 2189641 Riverside_County
   POLLUTID CO
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops CO Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473   3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212   3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136   3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606   3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736   3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660   3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690   3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898   3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181   3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636   3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712   3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581   3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617   3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380   3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889   3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606   3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530   3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661   3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898   3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105   3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181   3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465   3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541   3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410   3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435   3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117   3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248   3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172   3751619.077      534.860
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      LOCATION VOL29          VOLUME       471577.888  3751616.698     529.000
      LOCATION VOL30          VOLUME       471724.580  3751620.663     533.750
      LOCATION VOL31          VOLUME       471941.049  3751865.677     534.600
      LOCATION VOL32          VOLUME       471795.151  3751684.890     537.260
      LOCATION VOL33          VOLUME       471577.888  3751434.325     531.060
      LOCATION VOL34          VOLUME       471389.965  3751431.946     537.260
      LOCATION VOL35          VOLUME       471202.041  3751467.628     526.830
      LOCATION VOL36          VOLUME       471065.657  3751504.895     521.960
      LOCATION VOL37          VOLUME       471656.388  3751514.411     529.480
      LOCATION VOL38          VOLUME       471522.384  3751324.108     529.000
      LOCATION VOL39          VOLUME       471332.874  3751322.522     529.530
      LOCATION VOL40          VOLUME       471282.920  3751321.729     528.170
      LOCATION VOL41          VOLUME       471233.758  3751388.335     528.470
      LOCATION VOL48          VOLUME       471084.506  3752407.221     506.810
** Source Parameters **
      SRCPARAM VOL1      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL2      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL3      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL4      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL5      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL6      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL7      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL8      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL9      0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL10     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL11     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL12     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL13     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL14     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL15     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL16     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL17     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL18     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL19     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL20     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL21     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL22     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL23     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL24     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL25     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL26     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL27     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL28     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL29     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL30     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL31     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL32     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL33     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL34     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL35     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL36     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL37     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL38     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL39     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL40     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL41     0.0636289297      5.000      43.702     1.400
      SRCPARAM VOL48     0.0636289297      5.000      43.702     1.400
      URBANSRC ALL
      SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops CO Mit.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS CO MIT.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "14064 OPS CO MIT.AD\08H1GALL.PLT" 32
   SUMMFILE "14064 Ops CO Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

   --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***



    ********    WARNING MESSAGES    ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***        17:22:09

                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                    ***     MODEL SETUP OPTIONS SUMMARY      ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
```

```
** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
       for Total of    1 Urban Area(s):
   Urban Population =  2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Accepts FLAGPOLE Receptor . Heights.
     * The User Specified a Pollutant Type of: CO

**Model Calculates  2 Short Term Average(s) of:   1-HR    8-HR

**This Run Includes:     42 Source(s);        1 Source Group(s); and     258 Receptor(s)

                with:       0 POINT(s), including
                            0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      42 VOLUME source(s)
                 and:       0 AREA type source(s)
                 and:       0 LINE source(s)
                 and:       0 RLINE/RLINEXT source(s)
                 and:       0 OPENPIT source(s)
                 and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:       0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =     0.0
                Emission Units = GRAMS/SEC                              ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.6 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops CO
Mit.err
```

**File for Summary of Results: 14064 Ops CO
Mit.sum
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
*** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.63629E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.63629E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.63629E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.63629E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.63629E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.63629E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.63629E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.63629E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.63629E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.63629E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.63629E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.63629E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.63629E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.63629E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.63629E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.63629E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.63629E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.63629E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.63629E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.63629E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.63629E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.63629E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40

```
VOL23             0    0.63629E-01  471280.5 3751807.0  525.0     5.00     43.70     1.40
 YES
VOL24             0    0.63629E-01  471093.4 3751841.9  515.6     5.00     43.70     1.40
 YES
VOL25             0    0.63629E-01  470978.4 3751841.9  518.1     5.00     43.70     1.40
 YES
VOL26             0    0.63629E-01  471014.1 3751654.8  520.4     5.00     43.70     1.40
 YES
VOL27             0    0.63629E-01  471201.2 3751654.8  525.1     5.00     43.70     1.40
 YES
VOL28             0    0.63629E-01  471389.2 3751619.1  534.9     5.00     43.70     1.40
 YES
VOL29             0    0.63629E-01  471577.9 3751616.7  529.0     5.00     43.70     1.40
 YES
VOL30             0    0.63629E-01  471724.6 3751620.7  533.8     5.00     43.70     1.40
 YES
VOL31             0    0.63629E-01  471941.0 3751865.7  534.6     5.00     43.70     1.40
 YES
VOL32             0    0.63629E-01  471795.2 3751684.9  537.3     5.00     43.70     1.40
 YES
VOL33             0    0.63629E-01  471577.9 3751434.3  531.1     5.00     43.70     1.40
 YES
VOL34             0    0.63629E-01  471390.0 3751431.9  537.3     5.00     43.70     1.40
 YES
VOL35             0    0.63629E-01  471202.0 3751467.6  526.8     5.00     43.70     1.40
 YES
VOL36             0    0.63629E-01  471065.7 3751504.9  522.0     5.00     43.70     1.40
 YES
VOL37             0    0.63629E-01  471656.4 3751514.4  529.5     5.00     43.70     1.40
 YES
VOL38             0    0.63629E-01  471522.4 3751324.1  529.0     5.00     43.70     1.40
 YES
VOL39             0    0.63629E-01  471332.9 3751322.5  529.5     5.00     43.70     1.40
 YES
VOL40             0    0.63629E-01  471282.9 3751321.7  528.2     5.00     43.70     1.40
 YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***
```
              NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
              URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)      X        Y      ELEV.    HEIGHT      SY        SZ
  SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

VOL41             0    0.63629E-01  471233.8 3751388.3  528.5     5.00     43.70     1.40
 YES
VOL48             0    0.63629E-01  471084.5 3752407.2  506.8     5.00     43.70     1.40
 YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
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```
                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                       SOURCE IDs
 -----------                                       ----------


  ALL        VOL1       , VOL2       , VOL3       , VOL4       , VOL5       , VOL6       ,
  VOL7       , VOL8       ,

             VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
             VOL15      , VOL16      ,

             VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
             VOL23      , VOL24      ,

             VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
             VOL31      , VOL32      ,

             VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
             VOL39      , VOL40      ,

             VOL41      , VOL48      ,
```
🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:22:09

```
                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID  URBAN POP                               SOURCE IDs
  --------  ---------                               ----------


             2189641.  VOL1       , VOL2       , VOL3       , VOL4       , VOL5       ,
             VOL6       , VOL7       ,
  VOL8       ,

             VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
             VOL15      , VOL16      ,

             VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
             VOL23      , VOL24      ,

             VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
             VOL31      , VOL32      ,

             VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
             VOL39      , VOL40      ,

             VOL41      , VOL48      ,
```
🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:22:09

```
                              *** DISCRETE CARTESIAN RECEPTORS ***
```

```
502.0,       502.0,       2.0);
( 470633.5, 3752144.1,    501.5,       501.5,       2.0);       ( 470615.5, 3752144.0,
500.9,       500.9,       2.0);
( 470596.0, 3752143.3,    500.2,       500.2,       2.0);       ( 470577.0, 3752143.5,
500.0,       500.0,       2.0);
( 470553.6, 3752143.5,    499.7,       499.7,       2.0);       ( 470528.6, 3752142.6,
498.8,       498.8,       2.0);
( 470508.0, 3752142.8,    497.6,       497.6,       2.0);       ( 470485.6, 3752142.5,
496.3,       496.3,       2.0);
( 470471.6, 3752131.6,    496.1,       496.1,       2.0);       ( 470471.6, 3752109.2,
497.3,       497.3,       2.0);
( 470471.3, 3752085.2,    498.1,       498.1,       2.0);       ( 470471.5, 3752037.7,
499.7,       499.7,       2.0);
( 470471.7, 3752013.0,    500.0,       500.0,       2.0);       ( 470470.9, 3751987.2,
500.1,       500.1,       2.0);
( 470470.9, 3751965.7,    500.1,       500.1,       2.0);       ( 470470.8, 3751944.4,
500.1,       500.1,       2.0);
( 470470.6, 3751924.3,    499.6,       499.6,       2.0);       ( 470470.5, 3751905.9,
499.0,       499.0,       2.0);
( 470470.9, 3751884.1,    499.1,       499.1,       2.0);       ( 470470.6, 3751864.0,
498.6,       498.6,       2.0);
( 470470.3, 3751844.0,    497.9,       497.9,       2.0);       ( 470470.2, 3751824.5,
496.6,       496.6,       2.0);
( 470470.3, 3751805.8,    495.7,       499.0,       2.0);       ( 470470.3, 3751788.0,
495.1,       502.0,       2.0);
( 470470.3, 3751761.2,    497.6,       497.6,       2.0);       ( 470471.0, 3751741.9,
499.5,       499.5,       2.0);
```

▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

```
( 470470.0, 3751722.8,    501.4,       501.4,       2.0);       ( 470470.2, 3751703.4,
503.3,       503.3,       2.0);
( 470470.2, 3751683.8,    504.9,       504.9,       2.0);       ( 470470.3, 3751664.3,
506.2,       506.2,       2.0);
( 470470.3, 3751642.4,    507.6,       507.6,       2.0);       ( 470470.5, 3751621.8,
508.5,       508.5,       2.0);
( 470470.2, 3751599.8,    509.0,       509.0,       2.0);       ( 470470.6, 3751578.8,
509.1,       509.1,       2.0);
( 470469.6, 3751555.9,    507.6,       507.6,       2.0);       ( 470470.0, 3751512.5,
504.8,       512.0,       2.0);
( 470468.6, 3751414.6,    501.8,       513.0,       2.0);       ( 470469.8, 3751385.2,
507.1,       513.0,       2.0);
( 470468.6, 3751358.9,    509.6,       509.6,       2.0);       ( 470462.9, 3751325.6,
511.9,       511.9,       2.0);
( 470462.0, 3751310.6,    512.6,       512.6,       2.0);       ( 470462.6, 3751296.6,
512.4,       512.4,       2.0);
( 470462.6, 3751283.3,    512.0,       512.0,       2.0);       ( 470462.6, 3751269.9,
511.1,       511.1,       2.0);
( 470462.9, 3751254.3,    509.6,       512.0,       2.0);       ( 470462.0, 3751240.7,
508.9,       508.9,       2.0);
( 470463.2, 3751227.6,    509.4,       509.4,       2.0);       ( 470756.4, 3751290.6,
507.7,       525.0,       2.0);
( 470797.7, 3751268.3,    507.7,       525.0,       2.0);       ( 470891.2, 3751226.4,
512.0,       512.0,       2.0);
( 470940.8, 3751191.8,    512.1,       512.1,       2.0);       ( 471000.6, 3750923.6,
523.8,       523.8,       2.0);
( 471029.3, 3750923.6,    523.7,       523.7,       2.0);       ( 471056.3, 3750923.9,
```

```
                          524.2,       542.0,        2.0);
( 471077.9, 3750924.4,    524.8,       543.0,        2.0);        ( 471097.6, 3750924.4,
525.7,       543.0,        2.0);
( 471118.2, 3750925.0,    528.0,       543.0,        2.0);        ( 471139.0, 3750927.4,
529.8,       543.0,        2.0);
( 471160.1, 3750928.8,    530.8,       543.0,        2.0);        ( 471181.1, 3750931.5,
532.3,       543.0,        2.0);
( 471201.7, 3750930.9,    533.3,       543.0,        2.0);        ( 471222.5, 3750931.5,
533.7,       543.0,        2.0);
( 471244.1, 3750931.2,    534.8,       543.0,        2.0);        ( 471264.4, 3750931.7,
535.7,       538.0,        2.0);
( 471284.4, 3750931.7,    536.5,       536.5,        2.0);        ( 471305.8, 3750931.7,
536.5,       536.5,        2.0);
( 471324.7, 3750930.9,    535.8,       535.8,        2.0);        ( 471343.0, 3750930.1,
534.9,       534.9,        2.0);
( 471363.9, 3750929.0,    534.7,       534.7,        2.0);        ( 471382.0, 3750928.8,
534.8,       534.8,        2.0);
( 471400.9, 3750928.2,    535.0,       535.0,        2.0);        ( 471421.1, 3750928.0,
535.4,       535.4,        2.0);
( 471440.6, 3750928.1,    535.6,       535.6,        2.0);        ( 471461.8, 3750927.4,
535.7,       535.7,        2.0);
( 471479.8, 3750927.9,    535.9,       535.9,        2.0);        ( 471499.7, 3750927.6,
536.2,       536.2,        2.0);
( 471519.3, 3750928.8,    536.6,       549.0,        2.0);        ( 471537.0, 3750929.6,
538.0,       549.0,        2.0);
( 471556.8, 3750930.9,    539.6,       549.0,        2.0);        ( 471580.7, 3750934.1,
541.7,       549.0,        2.0);
( 471624.0, 3750940.2,    545.0,       549.0,        2.0);        ( 471795.9, 3750950.1,
548.4,       548.4,        2.0);
( 471796.3, 3750967.9,    547.3,       547.3,        2.0);        ( 471796.7, 3750987.2,
545.3,       547.0,        2.0);
( 471797.5, 3751006.8,    542.7,       549.0,        2.0);        ( 471796.7, 3751025.3,
542.0,       547.0,        2.0);
( 471795.9, 3751046.4,    541.1,       541.1,        2.0);        ( 471796.7, 3751073.0,
540.1,       540.1,        2.0);
( 471797.5, 3751143.8,    537.7,       537.7,        2.0);        ( 471833.0, 3751143.8,
537.0,       537.0,        2.0);
( 471867.4, 3751144.0,    534.9,       534.9,        2.0);        ( 471891.0, 3751144.4,
532.9,       532.9,        2.0);
( 471916.6, 3751144.2,    530.9,       530.9,        2.0);        ( 471939.5, 3751144.2,
529.4,       529.4,        2.0);
( 471963.1, 3751144.4,    525.8,       535.0,        2.0);        ( 471984.2, 3751144.0,
524.4,       533.0,        2.0);
( 471999.0, 3751163.4,    525.3,       536.0,        2.0);        ( 472000.2, 3751199.1,
530.8,       530.8,        2.0);
( 471999.8, 3751230.6,    532.9,       532.9,        2.0);        ( 472000.4, 3751251.5,
534.3,       534.3,        2.0);
( 472000.2, 3751281.1,    536.2,       536.2,        2.0);        ( 472002.0, 3751347.9,
537.0,       537.0,        2.0);
( 472036.9, 3751348.5,    536.6,       536.6,        2.0);        ( 472063.1, 3751349.3,
536.5,       536.5,        2.0);
( 472084.6, 3751348.3,    535.8,       535.8,        2.0);        ( 472104.9, 3751348.7,
534.6,       534.6,        2.0);
( 472127.3, 3751348.5,    533.0,       533.0,        2.0);        ( 472150.8, 3751349.7,
531.4,       531.4,        2.0);
( 472171.5, 3751349.5,    530.3,       530.3,        2.0);        ( 472194.1, 3751349.1,
528.2,       531.0,        2.0);
( 472222.6, 3751348.7,    525.4,       536.0,        2.0);        ( 472247.8, 3751349.5,
523.2,       536.0,        2.0);
( 472269.7, 3751349.1,    520.9,       536.0,        2.0);        ( 472290.4, 3751350.3,
520.7,       535.0,        2.0);
( 472313.6, 3751350.5,    520.9,       532.0,        2.0);        ( 472333.8, 3751351.3,
520.6,       532.0,        2.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                   *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                             (METERS)

```
( 472354.8, 3751351.3,    518.5,    532.0,      2.0);     ( 472377.7, 3751351.1,
516.0,      532.0,      2.0);
( 472401.7, 3751351.1,    513.6,    533.0,      2.0);     ( 472425.5, 3751351.8,
511.8,      532.0,      2.0);
( 472445.7, 3751350.7,    511.1,    532.0,      2.0);     ( 472463.2, 3751350.9,
509.4,      532.0,      2.0);
( 472484.1, 3751350.9,    507.3,    532.0,      2.0);     ( 472503.9, 3751351.3,
506.3,      532.0,      2.0);
( 472523.8, 3751351.3,    506.2,    531.0,      2.0);     ( 472543.3, 3751351.3,
506.4,      506.4,      2.0);
( 472563.2, 3751352.2,    506.1,    506.1,      2.0);     ( 472582.6, 3751352.0,
505.8,      505.8,      2.0);
( 472601.3, 3751352.0,    505.3,    505.3,      2.0);     ( 472606.8, 3751367.3,
504.3,      504.3,      2.0);
( 472607.6, 3751396.4,    504.2,    504.2,      2.0);     ( 472608.5, 3751432.1,
505.0,      505.0,      2.0);
( 472608.9, 3751462.6,    504.4,    504.4,      2.0);     ( 472609.5, 3751497.1,
505.0,      505.0,      2.0);
( 472610.7, 3751553.8,    505.4,    505.4,      2.0);     ( 472666.0, 3751554.0,
501.3,      501.3,      2.0);
( 472690.4, 3751553.6,    499.8,    499.8,      2.0);     ( 472713.5, 3751554.3,
499.2,      499.2,      2.0);
( 472734.6, 3751554.0,    497.9,    497.9,      2.0);     ( 472759.5, 3751554.0,
496.2,      496.2,      2.0);
( 472781.8, 3751554.5,    494.9,    499.0,      2.0);     ( 472849.8, 3751556.1,
495.4,      495.4,      2.0);
( 472871.8, 3751556.1,    494.9,    494.9,      2.0);     ( 472895.2, 3751555.6,
494.2,      494.2,      2.0);
( 472922.6, 3751555.9,    493.8,    493.8,      2.0);     ( 473092.4, 3751802.3,
486.1,      486.1,      2.0);
( 473204.8, 3751856.8,    481.6,    481.6,      2.0);     ( 472991.2, 3752083.3,
484.1,      484.1,      2.0);
( 473295.1, 3752052.5,    478.7,    478.7,      2.0);     ( 473356.8, 3752050.3,
476.8,      476.8,      2.0);
( 473495.1, 3751996.6,    476.0,    476.0,      2.0);     ( 473486.5, 3751917.7,
475.8,      475.8,      2.0);
( 473392.6, 3752058.2,    475.9,    475.9,      2.0);     ( 473464.3, 3752082.6,
475.2,      475.2,      2.0);
( 473550.3, 3752087.6,    473.0,    473.0,      2.0);     ( 473584.7, 3752089.8,
473.0,      473.0,      2.0);
( 472765.6, 3752474.1,    477.2,    495.0,      2.0);     ( 470432.2, 3750483.9,
532.6,      532.6,      2.0);
( 469244.1, 3754182.8,    471.3,    485.0,      2.0);     ( 469596.8, 3750785.6,
493.4,      493.4,      2.0);
( 470466.5, 3750530.3,    535.0,    535.0,      2.0);     ( 469319.3, 3749244.5,
500.0,      500.0,      2.0);
( 469229.6, 3749502.2,    503.4,    503.4,      2.0);     ( 468465.4, 3749582.3,
490.5,      490.5,      2.0);
( 471438.4, 3750129.8,    539.2,    539.2,      2.0);     ( 471657.5, 3749918.8,
535.4,      535.4,      2.0);
( 471732.9, 3749916.5,    534.7,    534.7,      2.0);     ( 471710.3, 3750132.8,
537.0,      537.0,      2.0);
( 471273.9, 3750119.8,    540.5,    540.5,      2.0);     ( 470973.4, 3752300.8,
503.8,      503.8,      2.0);
( 470974.0, 3752278.4,    504.4,    504.4,      2.0);     ( 470974.0, 3752235.6,
505.0,      505.0,      2.0);
( 470971.9, 3752174.6,    506.2,    506.2,      2.0);     ( 470967.2, 3752139.2,
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      509.1,      509.1,       2.0);
   ( 470962.5, 3752110.5,      510.8,      510.8,       2.0);          ( 470952.6, 3752077.1,
      512.0,      512.0,       2.0);
   ( 470935.3, 3752029.1,      508.7,      512.0,       2.0);          ( 470922.3, 3751998.9,
      506.1,      511.0,       2.0);
   ( 470910.3, 3751966.5,      508.0,      508.0,       2.0);          ( 470891.5, 3751915.4,
      510.8,      510.8,       2.0);
   ( 470880.6, 3751877.9,      512.3,      512.3,       2.0);          ( 470874.8, 3751848.1,
      513.4,      517.0,       2.0);
   ( 470871.7, 3751810.6,      517.1,      517.1,       2.0);          ( 470871.2, 3751779.3,
      517.1,      517.1,       2.0);
   ( 470872.2, 3751740.7,      515.6,      515.6,       2.0);          ( 470876.4, 3751710.4,
      514.9,      514.9,       2.0);
   ( 470884.8, 3751671.8,      514.8,      514.8,       2.0);          ( 470900.4, 3751616.6,
      516.8,      516.8,       2.0);
   ( 470911.9, 3751582.7,      518.5,      518.5,       2.0);          ( 470919.7, 3751556.1,
      518.3,      518.3,       2.0);
   ( 470931.2, 3751524.2,      516.9,      516.9,       2.0);          ( 470940.0, 3751496.6,
      515.6,      515.6,       2.0);
   ( 470951.5, 3751461.1,      514.4,      514.4,       2.0);          ( 470962.0, 3751424.6,
      513.8,      513.8,       2.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                  PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                            *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                    (1=YES; 0=NO)

        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1
        1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

          NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
          INCLUDED IN THE DATA FILE.

                      *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                      ***

                                      (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23, 10.80,

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09
                  PAGE   10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
  78.    10.1   290.4     2.0
12 01 01    1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15   2.40   1.00    2.35
  52.    10.1   289.2     2.0
12 01 01    1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15   2.40   1.00    2.06
  75.    10.1   288.8     2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


 F indicates top of profile (=1) or below (=0)
 ▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        17:22:09


                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*


                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL       ***
                                INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                                    VOL3        , VOL4       , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                VOL11       , VOL12       , VOL13       ,
                VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                VOL19       , VOL20       , VOL21       ,
                VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                VOL27       , VOL28       ,  . . .      ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                        ** CONC OF CO        IN
                        MICROGRAMS/M**3                            **


    X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)          X-COORD (M)  Y-COORD
    (M)        CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      472283.74  3752640.98     13.66843  (14051521)          472482.23
      3752398.04     12.54618  (12041107)
      472477.97  3752183.12     12.52705  (15092020)          472148.10
      3752531.53     25.48026  (13112916)
      472052.12  3752531.22     30.52472  (13112916)          471975.52
      3752531.22     23.15359  (13112916)
      471896.06  3752530.90     24.59286  (13062606)          471840.76
      3752529.94     25.30043  (13062606)
      471816.60  3752527.08     25.58687  (13062606)          471736.82
      3752557.91     24.40253  (13112916)
      471696.59  3752558.87     26.58875  (13112916)          471627.29
      3752556.22     25.96412  (13112916)
      471584.60  3752556.76     26.48586  (13062606)          471560.01
      3752556.22     26.59876  (13062606)
      471534.35  3752554.87     26.54135  (13062606)          471514.89
      3752554.87     26.32152  (13062606)
      471486.79  3752555.68     26.13413  (13062606)          471465.72
      3752555.41     26.00628  (13062606)
      471442.21  3752554.98     25.72360  (13062606)          471419.71
      3752552.46     25.73062  (13062606)
      471394.22  3752552.91     25.65801  (13062606)          471363.44
      3752552.46     25.72706  (13062606)
      471332.68  3752553.31     25.63802  (13062606)          471307.62
      3752552.94     25.59906  (13062606)
      471284.05  3752552.70     25.47306  (13062606)          471261.98
      3752552.70     25.38543  (13062606)
```

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      471241.90     3752552.70       25.35662   (13062606)                     471223.15
      3752552.86       25.35716   (13062606)
      471205.90     3752552.86       25.37741   (13062606)                     471173.21
      3752552.37       25.43185   (13062606)
      471135.70     3752552.53       25.19669   (13062606)                     471093.22
      3752551.54       24.56795   (15100406)
      471059.37     3752551.70       24.66264   (15062802)                     471020.54
      3752551.20       23.04183   (15062802)
      470981.05     3752563.65       20.47486   (13083019)                     470980.39
      3752552.20       21.19378   (13083019)
      470980.06     3752535.61       22.26992   (13083019)                     470979.89
      3752517.19       23.46609   (13083019)
      470980.06     3752499.76       24.50173   (13083019)                     470980.22
      3752479.85       25.96721   (14090307)
      470980.39     3752459.44       29.75390   (14090307)                     470980.22
      3752433.22       32.10591   (14090307)
      470980.06     3752404.02       31.53087   (13062606)                     470927.12
      3752402.69       23.38830   (13062606)
      470907.87     3752402.69       21.50574   (13062606)                     470887.30
      3752402.69       19.83030   (13062606)
      470869.71     3752402.03       18.70503   (13062606)                     470849.63
      3752401.86       17.57597   (13062606)
      470829.39     3752402.19       16.57318   (13062606)                     470811.63
      3752402.19       15.79542   (13062606)
      470791.55     3752402.53       14.99469   (13062606)                     470773.63
      3752401.86       14.35926   (15042903)
      470749.24     3752402.19       13.71104   (15042903)                     470727.72
      3752391.74       13.29235   (15042903)
      470733.04     3752338.97       13.94319   (13062606)                     470733.70
      3752320.55       14.19156   (13062606)
      470734.20     3752291.01       14.56977   (13062606)                     470733.20
      3752265.78       14.81864   (13062606)
      470732.87     3752218.81       15.32218   (13062606)                     470732.54
      3752182.14       15.70420   (13062606)
      470732.37     3752145.29       16.10364   (13062606)                     470692.38
      3752144.80       14.66995   (13062606)
      470670.14     3752144.46       13.96011   (13062606)                     470651.72
      3752144.30       13.42039   (13062606)
      470633.46     3752144.13       12.90720   (13062606)                     470615.54
      3752143.97       12.43295   (13062606)
      470595.95     3752143.30       11.94880   (13062606)                     470577.03
      3752143.47       11.56804   (14091620)
      470553.63     3752143.47       11.25599   (15071822)                     470528.57
      3752142.64       10.94261   (15071820)
      470507.99     3752142.80       10.66855   (15071820)                     470485.59
      3752142.47       10.38361   (15071820)
      470471.60     3752131.63       10.27783   (15071820)                     470471.60
      3752109.21       10.40829   (15071820)
      470471.32     3752085.22       10.52184   (15071820)                     470471.46
      3752037.68       10.76679   (15071822)
      470471.74     3752013.00       10.87412   (12010420)                     470470.89
      3751987.18       10.95462   (16111021)
      470470.89     3751965.74       11.04297   (16111021)                     470470.75
      3751944.44       11.11915   (16111021)
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                    PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                      *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                    SOURCE GROUP: ALL   ***
                        INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                        VOL3   , VOL4   , VOL5   ,

```
         VOL6              , VOL7              , VOL8            , VOL9            , VOL10           ,
         VOL11             , VOL12             , VOL13           ,
         VOL14             , VOL15             , VOL16           , VOL17           , VOL18           ,
         VOL19             , VOL20             , VOL21           ,
         VOL22             , VOL23             , VOL24           , VOL25           , VOL26           ,
         VOL27             , VOL28             ,   . . .          ,
```

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF CO   IN
                         MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
        (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - -
       470470.61   3751924.27   11.15774   (16111021)   470470.47
        3751905.93   11.16975   (16111021)
       470470.89   3751884.06   11.23921   (16110919)   470470.61
        3751864.03   11.27968   (16110919)
       470470.33   3751844.00   11.28379   (16110919)   470470.19
        3751824.53   11.23946   (16110919)
       470470.33   3751805.77   11.22535   (16110818)   470470.33
        3751788.00   11.21200   (16110818)
       470470.33   3751761.19   11.40140   (16110818)   470471.03
        3751741.87   11.53910   (16110818)
       470470.05   3751722.82   11.63737   (16110818)   470470.19
        3751703.36   11.78614   (14051420)
       470470.19   3751683.75   11.92940   (14051420)   470470.33
        3751664.28   12.04342   (14051420)
       470470.33   3751642.41   12.15113   (14051420)   470470.47
        3751621.82   12.20937   (14051420)
       470470.19   3751599.81   12.22637   (14051420)   470470.61
        3751578.79   12.21512   (14051420)
       470469.62   3751555.94   12.08927   (14051420)   470470.05
        3751512.49   11.82147   (14051420)
       470468.64   3751414.59   11.28127   (16062003)   470469.76
        3751385.25   11.53703   (16062003)
       470468.65   3751358.95   11.58128   (16062003)   470462.93
        3751325.56   11.49729   (16062003)
       470461.98   3751310.62   11.46308   (13050223)   470462.61
        3751296.63   11.42414   (13050223)
       470462.61   3751283.28   11.36328   (13050223)   470462.61
        3751269.92   11.27897   (13050223)
       470462.93   3751254.35   11.17234   (13050223)   470461.98
        3751240.67   11.07394   (13050223)
       470463.25   3751227.64   11.04100   (13050223)   470756.39
        3751290.59   15.15707   (14100421)
       470797.72   3751268.33   15.69230   (14100421)   470891.19
        3751226.38   17.48781   (13083002)
       470940.78   3751191.82   18.16142   (15090923)   471000.61
        3750923.63   16.28991   (15031222)
       471029.26   3750923.63   16.45241   (15031222)   471056.29
        3750923.90   17.13520   (14072222)
       471077.91   3750924.44   17.71830   (14072222)   471097.64
        3750924.44   19.43920   (14072222)
       471118.18   3750924.98   21.50854   (15073004)   471138.99
        3750927.42   23.64314   (14070703)
       471160.07   3750928.77   25.55705   (14070703)   471181.15
        3750931.47   29.22731   (12111622)
       471201.69   3750930.93   31.25265   (12111622)   471222.50
        3750931.47   32.13022   (15102720)
       471244.13   3750931.20   33.79517   (15102720)   471264.40
        3750931.74   35.10290   (15102720)
       471284.40   3750931.74   36.00367   (13090322)   471305.75
        3750931.74   36.48932   (13090322)
```

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       471324.67    3750930.93      35.59567  (13090322)           471343.05
       3750930.12      34.61913  (13070301)
       471363.86    3750929.04      33.87258  (14092602)           471381.96
       3750928.77      33.64685  (14092602)
       471400.88    3750928.23      33.60310  (15091223)           471421.15
       3750927.96      33.42678  (15091223)
       471440.59    3750928.11      32.93250  (12091920)           471461.83
       3750927.45      32.38323  (12091920)
       471479.76    3750927.95      31.95290  (13090522)           471499.68
       3750927.62      31.64532  (13090522)
       471519.26    3750928.78      31.30609  (13090522)           471537.02
       3750929.61      31.86494  (13090522)
       471556.77    3750930.94      31.96762  (13090522)           471580.68
       3750934.09      33.32443  (13090522)
       471624.00    3750940.23      34.04684  (13090322)           471795.90
       3750950.11      32.73917  (14070402)
       471796.29    3750967.88      33.09195  (14070402)           471796.69
       3750987.22      33.26461  (15100222)
       471797.47    3751006.75      32.91448  (15100222)           471796.69
       3751025.30      33.01914  (15100222)
       471795.90    3751046.40      33.24479  (12092021)           471796.69
       3751072.96      33.28512  (12092021)
       471797.47    3751143.85      33.13392  (12092021)           471833.01
       3751143.85      31.06990  (12092021)
       471867.38    3751144.05      27.77183  (12081722)           471891.02
       3751144.44      23.22260  (12081722)
       471916.60    3751144.24      18.73464  (12081621)           471939.45
       3751144.24      17.60688  (14083024)
       471963.08    3751144.44      16.43970  (15041821)           471984.17
       3751144.05      16.04995  (15041821)
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                    PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                           *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF CO   IN
                           MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
       471999.02   3751163.38   16.05601 (15041821)   472000.19
       3751199.12   17.94015 (15092721)
       471999.80   3751230.56   21.71424 (16061922)   472000.38
       3751251.46   24.37108 (16061922)
       472000.19   3751281.15   26.02975 (14091022)   472001.95
       3751347.94   28.73494 (12080621)
       472036.90   3751348.52   25.95275 (12080624)   472063.07
       3751349.31   24.86268 (12080524)

```
472084.56    3751348.33      23.71436   (13063022)                  472104.87
3751348.72      22.21093   (13082222)
472127.33    3751348.52      19.87273   (12081422)                  472150.76
3751349.70      17.53311   (14091223)
472171.47    3751349.50      16.36663   (12081622)                  472194.12
3751349.11      15.83383   (15081620)
472222.63    3751348.72      15.08412   (16082920)                  472247.83
3751349.50      14.44344   (16082920)
472269.70    3751349.11      13.58342   (16082920)                  472290.40
3751350.28      13.31182   (16082920)
472313.64    3751350.48      13.03028   (16082920)                  472333.76
3751351.26      12.76142   (16082920)
472354.85    3751351.26      12.18120   (16082920)                  472377.70
3751351.06      11.67869   (16082920)
472401.72    3751351.06      11.15108   (16081620)                  472425.55
3751351.84      10.52783   (15102418)
472445.67    3751350.67      10.34996   (15102418)                  472463.24
3751350.87      10.05695   (15102418)
472484.14    3751350.87       9.82343   (15102418)                  472503.87
3751351.26       9.65216   (15102418)
472523.79    3751351.26       9.52031   (15102418)                  472543.32
3751351.26       9.40274   (15102418)
472563.24    3751352.24       9.26638   (15102418)                  472582.57
3751352.04       9.13111   (15102418)
472601.32    3751352.04       8.99753   (15102418)                  472606.79
3751367.27       8.96338   (15091321)
472607.57    3751396.37       9.05685   (15091321)                  472608.55
3751432.11       9.19455   (15070221)
472608.94    3751462.58       9.27411   (15070221)                  472609.52
3751497.15       9.41291   (14072920)
472610.70    3751553.78       9.66301   (12080920)                  472665.97
3751553.98       9.14395   (12080920)
472690.38    3751553.59       8.93481   (12080920)                  472713.50
3751554.27       8.78188   (12080920)
472734.64    3751554.04       8.61518   (12080920)                  472759.46
3751554.04       8.41954   (12080920)
472781.75    3751554.50       8.26028   (12080920)                  472849.76
3751556.11       7.94441   (12080920)
472871.82    3751556.11       7.82179   (12080920)                  472895.25
3751555.65       7.68652   (12080920)
472922.60    3751555.88       7.54990   (12080920)                  473092.41
3751802.31       6.94317   (13082619)
473204.80    3751856.81       6.49008   (13082920)                  472991.21
3752083.31       7.51609   (16082919)
473295.12    3752052.49       6.13534   (13090121)                  473356.76
3752050.34       5.89728   (12080821)
473495.10    3751996.58       5.49584   (13070920)                  473486.50
3751917.74       5.50712   (13082920)
473392.60    3752058.22       5.77560   (13090121)                  473464.28
3752082.59       5.56860   (13090121)
473550.29    3752087.61       5.29987   (13090121)                  473584.69
3752089.76       5.21390   (13090121)
472765.59    3752474.09       8.48884   (16062023)                  470432.16
3750483.93      14.80344   (16100620)
469244.06    3754182.82       3.24070   (14091624)                  469596.75
3750785.65       5.49066   (15021122)
470466.55    3750530.27      16.93390   (12091321)                  469319.29
3749244.53       3.38909   (15100924)
469229.64    3749502.19       3.58473   (15031221)                  468465.38
3749582.33       2.91842   (14051321)
471438.37    3750129.76      18.91426   (16102220)                  471657.54
3749918.78      14.13544   (14092602)
471732.91    3749916.52      13.41489   (15091223)                  471710.30
3750132.80      16.63204   (15091223)
471273.89    3750119.77      19.85180   (15073004)                  470973.43
3752300.84      31.65227   (13062606)
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    470973.95   3752278.41      32.38973  (13062606)              470973.95
    3752235.65      33.75501  (13062606)
    470971.86   3752174.63      34.25890  (13062606)              470967.17
    3752139.16      34.19067  (13062606)
    470962.47   3752110.48      34.45570  (13062606)              470952.57
    3752077.10      34.43239  (13062606)
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▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                    PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                      VOL3   , VOL4   , VOL5   ,
                    VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                    VOL11   , VOL12   , VOL13   ,
                    VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                    VOL19   , VOL20   , VOL21   ,
                    VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                    VOL27   , VOL28   , . . .   ,

                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF CO   IN
                          MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
    (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - - -
    470935.35   3752029.11   33.40170 (13062606)   470922.32
    3751998.86   32.46796 (13062606)
    470910.32   3751966.53   32.77051 (13062606)   470891.54
    3751915.42   34.10977 (13062606)
    470880.59   3751877.86   34.96673 (13062606)   470874.85
    3751848.14   34.93317 (13062606)
    470871.72   3751810.58   34.15022 (13062606)   470871.20
    3751779.29   32.96138 (13062606)
    470872.25   3751740.70   31.78635 (13062606)   470876.42
    3751710.45   31.67704 (13062606)
    470884.76   3751671.85   32.34055 (13062606)   470900.41
    3751616.57   33.60483 (13062606)
    470911.88   3751582.67   33.83570 (13062606)   470919.71
    3751556.07   33.46661 (13062606)
    470931.18   3751524.25   33.37909 (13062606)   470940.05
    3751496.61   33.11688 (13062606)
    470951.52   3751461.14   32.35619 (13062606)   470961.95
    3751424.64   30.68554 (13041207)
▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                    PAGE 15
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                      VOL3   , VOL4   , VOL5   ,
                    VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                    VOL11   , VOL12   , VOL13   ,

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                VOL14        , VOL15        , VOL16        , VOL17        , VOL18        ,
                VOL19        , VOL20        , VOL21        ,
                VOL22        , VOL23        , VOL24        , VOL25        , VOL26        ,
                VOL27        , VOL28        ,  . . .       ,
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                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                            ** CONC OF CO   IN
                               MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
       (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - - -

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
472283.74	3752640.98	9.64909	(15111008)	472482.23	3752398.04	8.70682m	(16031408)
472477.97	3752183.12	10.60147m	(12050224)	472148.10	3752531.53	13.99341c	(12121708)
472052.12	3752531.22	17.65673c	(12121708)	471975.52	3752531.22	19.82282c	(12121708)
471896.06	3752530.90	21.08492c	(12121708)	471840.76	3752529.94	21.69023c	(12121708)
471816.60	3752527.08	21.91539c	(12121708)	471736.82	3752557.91	20.64322c	(12121708)
471696.59	3752558.87	20.96578c	(12121708)	471627.29	3752556.22	22.21194c	(12121708)
471584.60	3752556.76	22.70714c	(12121708)	471560.01	3752556.22	22.80480c	(12121708)
471534.35	3752554.87	22.74814c	(12121708)	471514.89	3752554.87	22.55481c	(12121708)
471486.79	3752555.68	22.40312c	(12121708)	471465.72	3752555.41	22.29577c	(12121708)
471442.21	3752554.98	22.04501c	(12121708)	471419.71	3752552.46	22.04625c	(12121708)
471394.22	3752552.91	21.99254c	(12121708)	471363.44	3752552.46	22.06705c	(12121708)
471332.68	3752553.31	22.00584c	(12121708)	471307.62	3752552.94	21.97932c	(12121708)
471284.05	3752552.70	21.86908c	(12121708)	471261.98	3752552.70	21.79305c	(12121708)
471241.90	3752552.70	21.76887c	(12121708)	471223.15	3752552.86	21.77145c	(12121708)
471205.90	3752552.86	21.79031c	(12121708)	471173.21	3752552.37	21.83835c	(12121708)
471135.70	3752552.53	21.63547c	(12121708)	471093.22	3752551.54	21.04370c	(12121708)
471059.37	3752551.70	19.95030c	(12121708)	471020.54	3752551.20	18.29242c	(12121708)
470981.05	3752563.65	15.82206c	(12121708)	470980.39	3752552.20	16.41925c	(12121708)
470980.06	3752535.61	17.39214c	(12121708)	470979.89	3752517.19	18.61120c	(12121708)
470980.06	3752499.76	19.91050c	(12121708)	470980.22	3752479.85	21.52294c	(12121708)
470980.39	3752459.44	23.31162c	(12121708)	470980.22	3752433.22	25.42795c	(12121708)
470980.06	3752404.02	27.05859c	(12121708)	470927.12	3752402.69	20.08230c	(12121708)
470907.87	3752402.69	18.46162c	(12121708)	470887.30	3752402.69	17.01713c	(12121708)
470869.71	3752402.03	16.05252c	(12121708)	470849.63	3752401.86	15.08433c	(12121708)
470829.39	3752402.19	14.22426c	(12121708)	470811.63	3752402.19	13.55704c	(12121708)
470791.55	3752402.53	12.86968c	(12121708)	470773.63	3752401.86	12.32354c	(12121708)

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   470749.24    3752402.19        11.63536c (12121708)              470727.72
      3752391.74       11.22158c (12121708)
   470733.04    3752338.97        11.96974c (12121708)              470733.70
      3752320.55       12.18298c (12121708)
   470734.20    3752291.01        12.50830c (12121708)              470733.20
      3752265.78       12.72122c (12121708)
   470732.87    3752218.81        13.15300c (12121708)              470732.54
      3752182.14       13.48115c (12121708)
   470732.37    3752145.29        13.82582c (12121708)              470692.38
      3752144.80       12.59556c (12121708)
   470670.14    3752144.46        11.98619c (12121708)              470651.72
      3752144.30       11.52344c (12121708)
   470633.46    3752144.13        11.08244c (12121708)              470615.54
      3752143.97       10.67483c (12121708)
   470595.95    3752143.30        10.25867c (12121708)              470577.03
      3752143.47        9.88469c (12121708)
   470553.63    3752143.47         9.45397c (12121708)              470528.57
      3752142.64        9.01904c (12121708)
   470507.99    3752142.80         8.67510c (12121708)              470485.59
      3752142.47        8.32478c (12121708)
   470471.60    3752131.63         8.16059c (12121708)              470471.60
      3752109.21        8.24617c (12121708)
   470471.32    3752085.22         8.33220  (14111708)              470471.46
      3752037.68        8.65587  (12122024)
   470471.74    3752013.00         8.81517  (12122024)              470470.89
      3751987.18        8.95063  (12122024)
   470470.89    3751965.74         9.06834  (12122024)              470470.75
      3751944.44        9.17758  (12122024)
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                   PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                          *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL   ***
                               INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
                    VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
                    VOL11   , VOL12   , VOL13   ,
                    VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
                    VOL19   , VOL20   , VOL21   ,
                    VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
                    VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                          ** CONC OF CO   IN
                          MICROGRAMS/M**3   **

   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
   (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - -
   470470.61   3751924.27   9.25904 (12122024)   470470.47
      3751905.93   9.31865 (12122024)
   470470.89   3751884.06   9.42463 (12122024)   470470.61
      3751864.03   9.48423 (12122024)
   470470.33   3751844.00   9.51728 (12122024)   470470.19
      3751824.53   9.51337 (12122024)
   470470.33   3751805.77   9.52080 (12122024)   470470.33
      3751788.00   9.52820 (12122024)
   470470.33   3751761.19   9.72372 (15012908)   470471.03
      3751741.87   9.93752 (15012908)

470470.05	3751722.82	10.11342	(15012908)	470470.19
3751703.36		10.29827	(15012908)	
470470.19	3751683.75	10.44484	(15012908)	470470.33
3751664.28		10.56643	(15012908)	
470470.33	3751642.41	10.68477	(15012908)	470470.47
3751621.82		10.75720	(15012908)	
470470.19	3751599.81	10.79183	(15012908)	470470.61
3751578.79		10.81529	(15112224)	
470469.62	3751555.94	10.77176	(14012108)	470470.05
3751512.49		10.68327	(14012108)	
470468.64	3751414.59	10.44713	(13122608)	470469.76
3751385.25		10.71010	(13122608)	
470468.65	3751358.95	10.77123	(13122608)	470462.93
3751325.56		10.71339	(13122608)	
470461.98	3751310.62	10.68654	(13122608)	470462.61
3751296.63		10.64532	(13122608)	
470462.61	3751283.28	10.58306	(13122608)	470462.61
3751269.92		10.49826	(13122608)	
470462.93	3751254.35	10.38979	(13122608)	470461.98
3751240.67		10.30539	(13011908)	
470463.25	3751227.64	10.30786	(13011908)	470756.39
3751290.59		14.07846	(13011908)	
470797.72	3751268.33	14.50735	(14010208)	470891.19
3751226.38		16.12693	(14010208)	
470940.78	3751191.82	16.54917	(14010208)	471000.61
3750923.63		12.13939b	(13120824)	
471029.26	3750923.63	12.10974	(12021624)	471056.29
3750923.90		12.53341	(12021624)	
471077.91	3750924.44	12.77180	(12021624)	471097.64
3750924.44		13.09599	(12021624)	
471118.18	3750924.98	13.41877	(12021624)	471138.99
3750927.42		13.80773	(12021624)	
471160.07	3750928.77	14.25027	(12021708)	471181.15
3750931.47		15.65479	(12021708)	
471201.69	3750930.93	16.32673	(12021708)	471222.50
3750931.47		16.41911	(12021708)	
471244.13	3750931.20	16.92505	(15022208)	471264.40
3750931.74		17.65562	(15022208)	
471284.40	3750931.74	18.17728	(15022208)	471305.75
3750931.74		18.43113	(15022208)	
471324.67	3750930.93	18.30703	(15022208)	471343.05
3750930.12		17.96049	(15022208)	
471363.86	3750929.04	17.66000	(15022208)	471381.96
3750928.77		17.49615	(13111608)	
471400.88	3750928.23	17.83057	(13111608)	471421.15
3750927.96		18.11261	(13111608)	
471440.59	3750928.11	18.19183	(13111608)	471461.83
3750927.45		18.08775	(13111608)	
471479.76	3750927.95	18.01271	(13111608)	471499.68
3750927.62		18.10840	(16013024)	
471519.26	3750928.78	18.29040	(16013024)	471537.02
3750929.61		18.95220	(16013024)	
471556.77	3750930.94	19.39488	(16013024)	471580.68
3750934.09		20.21188	(16013024)	
471624.00	3750940.23	20.17700	(16013024)	471795.90
3750950.11		19.40984	(12031708)	
471796.29	3750967.88	19.85287	(12031708)	471796.69
3750987.22		20.12752	(12031708)	
471797.47	3751006.75	20.01467	(12031708)	471796.69
3751025.30		20.25767	(12031708)	
471795.90	3751046.40	20.47264	(12031708)	471796.69
3751072.96		20.55059	(16013024)	
471797.47	3751143.85	21.16836	(16120624)	471833.01
3751143.85		20.79020	(16120624)	
471867.38	3751144.05	19.69262	(16120624)	471891.02
3751144.44		17.68317	(16120624)	

```
      471916.60   3751144.24      14.10391  (13121824)              471939.45
      3751144.24      13.42677  (13121824)
      471963.08   3751144.44      12.60183  (13121824)              471984.17
      3751144.05      12.01201  (13121824)
```
▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:22:09

                  PAGE 17
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                          *** THE   1ST HIGHEST  8-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL       ***
                               INCLUDING SOURCE(S):     VOL1         , VOL2          ,
                               VOL3          , VOL4        , VOL5          ,
              VOL6      , VOL7         , VOL8        , VOL9       , VOL10        ,
              VOL11     , VOL12        , VOL13       ,
              VOL14     , VOL15        , VOL16       , VOL17      , VOL18        ,
              VOL19     , VOL20        , VOL21       ,
              VOL22     , VOL23        , VOL24       , VOL25      , VOL26        ,
              VOL27     , VOL28        ,  . . .      ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                         ** CONC OF CO        IN
                         MICROGRAMS/M**3                           **


     X-COORD (M)  Y-COORD (M)       CONC      (YYMMDDHH)        X-COORD (M)  Y-COORD
     (M)      CONC     (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
      471999.02   3751163.38      12.38377  (13121824)              472000.19
      3751199.12      14.12279  (16120624)
      471999.80   3751230.56      17.28743  (16120624)              472000.38
      3751251.46      18.97006  (16120624)
      472000.19   3751281.15      20.14815m (12050208)              472001.95
      3751347.94      22.77421m (12050208)
      472036.90   3751348.52      20.98632m (12050208)              472063.07
      3751349.31      20.21190m (12050208)
      472084.56   3751348.33      19.41048m (12050208)              472104.87
      3751348.72      18.36283m (12050208)
      472127.33   3751348.52      16.69978m (12050208)              472150.76
      3751349.70      14.48300  (16120624)
      472171.47   3751349.50      13.68055  (16120624)              472194.12
      3751349.11      12.91582  (16120624)
      472222.63   3751348.72      11.95050  (16120624)              472247.83
      3751349.50      10.98210  (16120624)
      472269.70   3751349.11      10.16324  (16120624)              472290.40
      3751350.28       9.92682  (16120624)
      472313.64   3751350.48       9.69713  (16120624)              472333.76
      3751351.26       9.47958  (16120624)
      472354.85   3751351.26       8.97086  (12111724)              472377.70
      3751351.06       8.56498  (12111724)
      472401.72   3751351.06       8.21506  (12111724)              472425.55
      3751351.84       7.93838  (12111724)
      472445.67   3751350.67       7.74864  (12111724)              472463.24
      3751350.87       7.55849  (12111724)
      472484.14   3751350.87       7.35421  (12111724)              472503.87
      3751351.26       7.19364  (12111724)
      472523.79   3751351.26       7.05659  (12111724)              472543.32
      3751351.26       6.93228  (12111724)
      472563.24   3751352.24       6.80331  (12111724)              472582.57
      3751352.04       6.67627  (12111724)
      472601.32   3751352.04       6.55549  (12111724)              472606.79
      3751367.27       6.56947  (12111724)
```

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   472607.57    3751396.37          6.68813 (12111724)                      472608.55
3751432.11          6.91194b (16080308)
   472608.94    3751462.58          7.10182m (12050224)                      472609.52
3751497.15          7.43052m (12050224)
   472610.70    3751553.78          7.91605m (12050224)                      472665.97
3751553.98          7.46965m (12050224)
   472690.38    3751553.59          7.28948m (12050224)                      472713.50
3751554.27          7.16109m (12050224)
   472734.64    3751554.04          7.01965m (12050224)                      472759.46
3751554.04          6.85617m (12050224)
   472781.75    3751554.50          6.72571m (12050224)                      472849.76
3751556.11          6.47121m (12050224)
   472871.82    3751556.11          6.37204m (12050224)                      472895.25
3751555.65          6.26157m (12050224)
   472922.60    3751555.88          6.15416m (12050224)                      473092.41
3751802.31          6.19941m (12050224)
   473204.80    3751856.81          5.75082m (12050224)                      472991.21
3752083.31          6.26682m (12050224)
   473295.12    3752052.49          5.11949m (12050224)                      473356.76
3752050.34          4.90842m (12050224)
   473495.10    3751996.58          4.65992m (12050224)                      473486.50
3751917.74          4.80539m (12050224)
   473392.60    3752058.22          4.77048m (12050224)                      473464.28
3752082.59          4.49220m (12050224)
   473550.29    3752087.61          4.23646m (12050224)                      473584.69
3752089.76          4.15209m (12050224)
   472765.59    3752474.09          5.52255 (16100508)                      470432.16
3750483.93          9.58095 (12122408)
   469244.06    3754182.82          1.84843 (13050508)                      469596.75
3750785.65          4.90238 (13011908)
   470466.55    3750530.27         10.67527 (12122408)                      469319.29
3749244.53          2.39992 (13010408)
   469229.64    3749502.19          2.90886 (13010408)                      468465.38
3749582.33          2.42193 (12110508)
   471438.37    3750129.76          7.99555 (15022208)                      471657.54
3749918.78          6.09878 (15022208)
   471732.91    3749916.52          5.85013 (13111608)                      471710.30
3750132.80          7.57221 (13111608)
   471273.89    3750119.77          7.29562 (12021708)                      470973.43
3752300.84         27.15191c (12121708)
   470973.95    3752278.41         27.78557c (12121708)                      470973.95
3752235.65         28.95327c (12121708)
   470971.86    3752174.63         29.38901c (12121708)                      470967.17
3752139.16         29.34596c (12121708)
   470962.47    3752110.48         29.57580c (12121708)                      470952.57
3752077.10         29.54726c (12121708)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:22:09

                 PAGE 18
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

                                *** THE   1ST HIGHEST 8-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                   VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

```
                              ** CONC OF CO        IN
                          MICROGRAMS/M**3                              **

        X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)          X-COORD (M)  Y-COORD
         (M)        CONC    (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
        470935.35   3752029.11      28.65538c (12121708)          470922.32
        3751998.86      27.83145c (12121708)
        470910.32   3751966.53      28.10117c (12121708)          470891.54
        3751915.42      29.25637c (12121708)
        470880.59   3751877.86      29.98807c (12121708)          470874.85
        3751848.14      29.96219c (12121708)
        470871.72   3751810.58      29.43647  (12113008)          470871.20
        3751779.29      28.45678  (12113008)
        470872.25   3751740.70      27.31148  (12113008)          470876.42
        3751710.45      27.17717c (12121708)
        470884.76   3751671.85      27.74273c (12121708)          470900.41
        3751616.57      28.92276  (12113008)
        470911.88   3751582.67      29.35037  (12113008)          470919.71
        3751556.07      28.97657  (12113008)
        470931.18   3751524.25      28.64663  (12113008)          470940.05
        3751496.61      28.39426c (12121708)
        470951.52   3751461.14      27.73994c (12121708)          470961.95
        3751424.64      26.22819c (12121708)
```
🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                 PAGE 19
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

                              ** CONC OF CO   IN
                          MICROGRAMS/M**3   **

                                      DATE
                                                                        NETWORK
GROUP ID   AVERAGE CONC   (YYMMDDHH)   RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - -

ALL   HIGH   1ST HIGH VALUE IS   36.48932 ON 13090322: AT (471305.75, 3750931.74,
536.50,   536.50,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:22:09

                 PAGE 20
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                        *** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

```
                    ** CONC OF CO        IN
                    MICROGRAMS/M**3                                    **


                                          DATE
                                                                    NETWORK
GROUP ID                          AVERAGE CONC    (YYMMDDHH)        RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -


ALL    HIGH   1ST HIGH VALUE IS     29.98807c ON 12121708: AT (  470880.59,  3751877.86,
512.35,   512.35,   2.00)  DC



 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
[] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        17:22:09


                    PAGE  21
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
            ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    146      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187    146      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/2/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops NO2 Mit\14064 Ops
NO2 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 1
   URBANOPT 2189641 Riverside_County
   POLLUTID NOX
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops NO2 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

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      LOCATION VOL29          VOLUME     471577.888   3751616.698        529.000
      LOCATION VOL30          VOLUME     471724.580   3751620.663        533.750
      LOCATION VOL31          VOLUME     471941.049   3751865.677        534.600
      LOCATION VOL32          VOLUME     471795.151   3751684.890        537.260
      LOCATION VOL33          VOLUME     471577.888   3751434.325        531.060
      LOCATION VOL34          VOLUME     471389.965   3751431.946        537.260
      LOCATION VOL35          VOLUME     471202.041   3751467.628        526.830
      LOCATION VOL36          VOLUME     471065.657   3751504.895        521.960
      LOCATION VOL37          VOLUME     471656.388   3751514.411        529.480
      LOCATION VOL38          VOLUME     471522.384   3751324.108        529.000
      LOCATION VOL39          VOLUME     471332.874   3751322.522        529.530
      LOCATION VOL40          VOLUME     471282.920   3751321.729        528.170
      LOCATION VOL41          VOLUME     471233.758   3751388.335        528.470
      LOCATION VOL48          VOLUME     471084.506   3752407.221        506.810
** Source Parameters **
      SRCPARAM VOL1     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL2     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL3     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL4     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL5     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL6     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL7     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL8     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL9     0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL10    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL11    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL12    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL13    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL14    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL15    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL16    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL17    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL18    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL19    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL20    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL21    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL22    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL23    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL24    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL25    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL26    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL27    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL28    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL29    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL30    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL31    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL32    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL33    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL34    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL35    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL36    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL37    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL38    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL39    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL40    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL41    0.0146157541      5.000      43.702     1.400
      SRCPARAM VOL48    0.0146157541      5.000      43.702     1.400
      URBANSRC ALL
      SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops NO2 Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "14064 OPS NO2 MIT.AD\01H1GALL.PLT" 31
   SUMMFILE "14064 Ops NO2 Mit.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)



    ******** FATAL ERROR MESSAGES ********
             ***  NONE  ***



    ********   WARNING MESSAGES   ********
 ME W186      146      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
 ME W187      146      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

🖼 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***         17:29:12


                   PAGE   1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      ***    MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
         * Model Is Setup For Calculation of Average CONCentration Values.
         * NO GAS DEPOSITION Data Provided.
         * NO PARTICLE DEPOSITION Data Provided.
         * Model Uses NO DRY DEPLETION. DDPLETE  =  F
         * Model Uses NO WET DEPLETION. WETDPLT  =  F
         * Stack-tip Downwash.
         * Model Accounts for ELEVated Terrain Effects.
         * Use Calms Processing Routine.
         * Use Missing Data Processing Routine.
         * No Exponential Decay.
         * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
           for Total of    1 Urban Area(s):
      Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
         * Urban Roughness Length of 1.0 Meter Used.
         * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         * CCVR_Sub - Meteorological data includes CCVR substitutions
         * TEMP_Sub - Meteorological data includes TEMP substitutions
         * Model Accepts FLAGPOLE Receptor . Heights.
         * The User Specified a Pollutant Type of: NOX

**Model Calculates  1 Short Term Average(s) of:   1-HR

**This Run Includes:     42 Source(s);      1 Source Group(s); and     258 Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     42 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                 Emission Units = GRAMS/SEC                                  ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops NO2
Mit.err
**File for Summary of Results:   14064 Ops NO2
Mit.sum
```

⚏ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:29:12

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						
- -								
VOL1 YES	0	0.14616E-01	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.14616E-01	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.14616E-01	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.14616E-01	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.14616E-01	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.14616E-01	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.14616E-01	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.14616E-01	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.14616E-01	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.14616E-01	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.14616E-01	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.14616E-01	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.14616E-01	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.14616E-01	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.14616E-01	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.14616E-01	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.14616E-01	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.14616E-01	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.14616E-01	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.14616E-01	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.14616E-01	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.14616E-01	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.14616E-01	471280.5	3751807.0	525.0	5.00	43.70	1.40

```
VOL24         0    0.14616E-01  471093.4 3751841.9   515.6    5.00   43.70    1.40
  YES
VOL25         0    0.14616E-01  470978.4 3751841.9   518.1    5.00   43.70    1.40
  YES
VOL26         0    0.14616E-01  471014.1 3751654.8   520.4    5.00   43.70    1.40
  YES
VOL27         0    0.14616E-01  471201.2 3751654.8   525.1    5.00   43.70    1.40
  YES
VOL28         0    0.14616E-01  471389.2 3751619.1   534.9    5.00   43.70    1.40
  YES
VOL29         0    0.14616E-01  471577.9 3751616.7   529.0    5.00   43.70    1.40
  YES
VOL30         0    0.14616E-01  471724.6 3751620.7   533.8    5.00   43.70    1.40
  YES
VOL31         0    0.14616E-01  471941.0 3751865.7   534.6    5.00   43.70    1.40
  YES
VOL32         0    0.14616E-01  471795.2 3751684.9   537.3    5.00   43.70    1.40
  YES
VOL33         0    0.14616E-01  471577.9 3751434.3   531.1    5.00   43.70    1.40
  YES
VOL34         0    0.14616E-01  471390.0 3751431.9   537.3    5.00   43.70    1.40
  YES
VOL35         0    0.14616E-01  471202.0 3751467.6   526.8    5.00   43.70    1.40
  YES
VOL36         0    0.14616E-01  471065.7 3751504.9   522.0    5.00   43.70    1.40
  YES
VOL37         0    0.14616E-01  471656.4 3751514.4   529.5    5.00   43.70    1.40
  YES
VOL38         0    0.14616E-01  471522.4 3751324.1   529.0    5.00   43.70    1.40
  YES
VOL39         0    0.14616E-01  471332.9 3751322.5   529.5    5.00   43.70    1.40
  YES
VOL40         0    0.14616E-01  471282.9 3751321.7   528.2    5.00   43.70    1.40
  YES
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:29:12

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

                                        *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - - -


```
VOL41         0    0.14616E-01  471233.8 3751388.3   528.5    5.00   43.70    1.40
  YES
VOL48         0    0.14616E-01  471084.5 3752407.2   506.8    5.00   43.70    1.40
  YES
```
🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:29:12

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN   ADJ_U*

```
                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                    SOURCE IDs
 -----------                                                    ----------


  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
  VOL7       , VOL8       ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                      ***         17:29:12

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*


                            *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                          SOURCE IDs
  --------   ---------                                          ----------


             2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
             VOL6        , VOL7        ,
 VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                      ***         17:29:12

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*

                                *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                             (METERS)
```

```
                  500.9,      500.9,       2.0);
  ( 470596.0, 3752143.3,      500.2,       500.2,       2.0);            ( 470577.0, 3752143.5,
  500.0,      500.0,       2.0);
  ( 470553.6, 3752143.5,      499.7,       499.7,       2.0);            ( 470528.6, 3752142.6,
  498.8,      498.8,       2.0);
  ( 470508.0, 3752142.8,      497.6,       497.6,       2.0);            ( 470485.6, 3752142.5,
  496.3,      496.3,       2.0);
  ( 470471.6, 3752131.6,      496.1,       496.1,       2.0);            ( 470471.6, 3752109.2,
  497.3,      497.3,       2.0);
  ( 470471.3, 3752085.2,      498.1,       498.1,       2.0);            ( 470471.5, 3752037.7,
  499.7,      499.7,       2.0);
  ( 470471.7, 3752013.0,      500.0,       500.0,       2.0);            ( 470470.9, 3751987.2,
  500.1,      500.1,       2.0);
  ( 470470.9, 3751965.7,      500.1,       500.1,       2.0);            ( 470470.8, 3751944.4,
  500.1,      500.1,       2.0);
  ( 470470.6, 3751924.3,      499.6,       499.6,       2.0);            ( 470470.5, 3751905.9,
  499.0,      499.0,       2.0);
  ( 470470.9, 3751884.1,      499.1,       499.1,       2.0);            ( 470470.6, 3751864.0,
  498.6,      498.6,       2.0);
  ( 470470.3, 3751844.0,      497.9,       497.9,       2.0);            ( 470470.2, 3751824.5,
  496.6,      496.6,       2.0);
  ( 470470.3, 3751805.8,      495.7,       499.0,       2.0);            ( 470470.3, 3751788.0,
  495.1,      502.0,       2.0);
  ( 470470.3, 3751761.2,      497.6,       497.6,       2.0);            ( 470471.0, 3751741.9,
  499.5,      499.5,       2.0);
```

                   PAGE   7
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)

```
  ( 470470.0, 3751722.8,      501.4,       501.4,       2.0);            ( 470470.2, 3751703.4,
  503.3,      503.3,       2.0);
  ( 470470.2, 3751683.8,      504.9,       504.9,       2.0);            ( 470470.3, 3751664.3,
  506.2,      506.2,       2.0);
  ( 470470.3, 3751642.4,      507.6,       507.6,       2.0);            ( 470470.5, 3751621.8,
  508.5,      508.5,       2.0);
  ( 470470.2, 3751599.8,      509.0,       509.0,       2.0);            ( 470470.6, 3751578.8,
  509.1,      509.1,       2.0);
  ( 470469.6, 3751555.9,      507.6,       507.6,       2.0);            ( 470470.0, 3751512.5,
  504.8,      512.0,       2.0);
  ( 470468.6, 3751414.6,      501.8,       513.0,       2.0);            ( 470469.8, 3751385.2,
  507.1,      513.0,       2.0);
  ( 470468.6, 3751358.9,      509.6,       509.6,       2.0);            ( 470462.9, 3751325.6,
  511.9,      511.9,       2.0);
  ( 470462.0, 3751310.6,      512.6,       512.6,       2.0);            ( 470462.6, 3751296.6,
  512.4,      512.4,       2.0);
  ( 470462.6, 3751283.3,      512.0,       512.0,       2.0);            ( 470462.6, 3751269.9,
  511.1,      511.1,       2.0);
  ( 470462.9, 3751254.3,      509.6,       512.0,       2.0);            ( 470462.0, 3751240.7,
  508.9,      508.9,       2.0);
  ( 470463.2, 3751227.6,      509.4,       509.4,       2.0);            ( 470756.4, 3751290.6,
  507.7,      525.0,       2.0);
  ( 470797.7, 3751268.3,      507.7,       525.0,       2.0);            ( 470891.2, 3751226.4,
  512.0,      512.0,       2.0);
  ( 470940.8, 3751191.8,      512.1,       512.1,       2.0);            ( 471000.6, 3750923.6,
  523.8,      523.8,       2.0);
  ( 471029.3, 3750923.6,      523.7,       523.7,       2.0);            ( 471056.3, 3750923.9,
  524.2,      542.0,       2.0);
  ( 471077.9, 3750924.4,      524.8,       543.0,       2.0);            ( 471097.6, 3750924.4,
```

```
       525.7,       543.0,        2.0);
  ( 471118.2, 3750925.0,       528.0,       543.0,        2.0);          ( 471139.0, 3750927.4,
  529.8,       543.0,        2.0);
  ( 471160.1, 3750928.8,       530.8,       543.0,        2.0);          ( 471181.1, 3750931.5,
  532.3,       543.0,        2.0);
  ( 471201.7, 3750930.9,       533.3,       543.0,        2.0);          ( 471222.5, 3750931.5,
  533.7,       543.0,        2.0);
  ( 471244.1, 3750931.2,       534.8,       543.0,        2.0);          ( 471264.4, 3750931.7,
  535.7,       538.0,        2.0);
  ( 471284.4, 3750931.7,       536.5,       536.5,        2.0);          ( 471305.8, 3750931.7,
  536.5,       536.5,        2.0);
  ( 471324.7, 3750930.9,       535.8,       535.8,        2.0);          ( 471343.0, 3750930.1,
  534.9,       534.9,        2.0);
  ( 471363.9, 3750929.0,       534.7,       534.7,        2.0);          ( 471382.0, 3750928.8,
  534.8,       534.8,        2.0);
  ( 471400.9, 3750928.2,       535.0,       535.0,        2.0);          ( 471421.1, 3750928.0,
  535.4,       535.4,        2.0);
  ( 471440.6, 3750928.1,       535.6,       535.6,        2.0);          ( 471461.8, 3750927.4,
  535.7,       535.7,        2.0);
  ( 471479.8, 3750927.9,       535.9,       535.9,        2.0);          ( 471499.7, 3750927.6,
  536.2,       536.2,        2.0);
  ( 471519.3, 3750928.8,       536.6,       549.0,        2.0);          ( 471537.0, 3750929.6,
  538.0,       549.0,        2.0);
  ( 471556.8, 3750930.9,       539.6,       549.0,        2.0);          ( 471580.7, 3750934.1,
  541.7,       549.0,        2.0);
  ( 471624.0, 3750940.2,       545.0,       549.0,        2.0);          ( 471795.9, 3750950.1,
  548.4,       548.4,        2.0);
  ( 471796.3, 3750967.9,       547.3,       547.3,        2.0);          ( 471796.7, 3750987.2,
  545.3,       547.0,        2.0);
  ( 471797.5, 3751006.8,       542.7,       549.0,        2.0);          ( 471796.7, 3751025.3,
  542.0,       547.0,        2.0);
  ( 471795.9, 3751046.4,       541.1,       541.1,        2.0);          ( 471796.7, 3751073.0,
  540.1,       540.1,        2.0);
  ( 471797.5, 3751143.8,       537.7,       537.7,        2.0);          ( 471833.0, 3751143.8,
  537.0,       537.0,        2.0);
  ( 471867.4, 3751144.0,       534.9,       534.9,        2.0);          ( 471891.0, 3751144.4,
  532.9,       532.9,        2.0);
  ( 471916.6, 3751144.2,       530.9,       530.9,        2.0);          ( 471939.5, 3751144.2,
  529.4,       529.4,        2.0);
  ( 471963.1, 3751144.4,       525.8,       535.0,        2.0);          ( 471984.2, 3751144.0,
  524.4,       533.0,        2.0);
  ( 471999.0, 3751163.4,       525.3,       536.0,        2.0);          ( 472000.2, 3751199.1,
  530.8,       530.8,        2.0);
  ( 471999.8, 3751230.6,       532.9,       532.9,        2.0);          ( 472000.4, 3751251.5,
  534.3,       534.3,        2.0);
  ( 472000.2, 3751281.1,       536.2,       536.2,        2.0);          ( 472002.0, 3751347.9,
  537.0,       537.0,        2.0);
  ( 472036.9, 3751348.5,       536.6,       536.6,        2.0);          ( 472063.1, 3751349.3,
  536.5,       536.5,        2.0);
  ( 472084.6, 3751348.3,       535.8,       535.8,        2.0);          ( 472104.9, 3751348.7,
  534.6,       534.6,        2.0);
  ( 472127.3, 3751348.5,       533.0,       533.0,        2.0);          ( 472150.8, 3751349.7,
  531.4,       531.4,        2.0);
  ( 472171.5, 3751349.5,       530.3,       530.3,        2.0);          ( 472194.1, 3751349.1,
  528.2,       531.0,        2.0);
  ( 472222.6, 3751348.7,       525.4,       536.0,        2.0);          ( 472247.8, 3751349.5,
  523.2,       536.0,        2.0);
  ( 472269.7, 3751349.1,       520.9,       536.0,        2.0);          ( 472290.4, 3751350.3,
  520.7,       535.0,        2.0);
  ( 472313.6, 3751350.5,       520.9,       532.0,        2.0);          ( 472333.8, 3751351.3,
  520.6,       532.0,        2.0);
```

```
512.0,        512.0,        2.0);
( 470935.3, 3752029.1,      508.7,      512.0,        2.0);        ( 470922.3, 3751998.9,
506.1,        511.0,        2.0);
( 470910.3, 3751966.5,      508.0,      508.0,        2.0);        ( 470891.5, 3751915.4,
510.8,        510.8,        2.0);
( 470880.6, 3751877.9,      512.3,      512.3,        2.0);        ( 470874.8, 3751848.1,
513.4,        517.0,        2.0);
( 470871.7, 3751810.6,      517.1,      517.1,        2.0);        ( 470871.2, 3751779.3,
517.1,        517.1,        2.0);
( 470872.2, 3751740.7,      515.6,      515.6,        2.0);        ( 470876.4, 3751710.4,
514.9,        514.9,        2.0);
( 470884.8, 3751671.8,      514.8,      514.8,        2.0);        ( 470900.4, 3751616.6,
516.8,        516.8,        2.0);
( 470911.9, 3751582.7,      518.5,      518.5,        2.0);        ( 470919.7, 3751556.1,
518.3,        518.3,        2.0);
( 470931.2, 3751524.2,      516.9,      516.9,        2.0);        ( 470940.0, 3751496.6,
515.6,        515.6,        2.0);
( 470951.5, 3751461.1,      514.4,      514.4,        2.0);        ( 470962.0, 3751424.6,
513.8,        513.8,        2.0);
```

                      PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                             (1=YES; 0=NO)

     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                         ***
                                          (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23,   10.80,

                      PAGE   10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.    37.0  0.15  2.40  1.00    2.06
75.   10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1  55.     2.93   288.2   99.0  -99.00  -99.00


F indicates top of profile (=1) or below (=0)
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/02/23
*** AERMET - VERSION  16216 ***
 ***                                                         ***        17:29:12


                        PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):    VOL1        , VOL2         ,
                                  VOL3        , VOL4        , VOL5        ,
            VOL6        , VOL7        , VOL8        , VOL9        , VOL10        ,
            VOL11       , VOL12       , VOL13       ,
            VOL14       , VOL15       , VOL16       , VOL17       , VOL18        ,
            VOL19       , VOL20       , VOL21       ,
            VOL22       , VOL23       , VOL24       , VOL25       , VOL26        ,
            VOL27       , VOL28       ,  . . .      ,


                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                        ** CONC OF NOX       IN
                        MICROGRAMS/M**3                              **


    X-COORD (M)  Y-COORD (M)      CONC    (YYMMDDHH)          X-COORD (M)  Y-COORD
     (M)        CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
       472283.74   3752640.98      3.13968  (14051521)          472482.23
       3752398.04       2.88190  (12041107)
       472477.97   3752183.12      2.87750  (15092020)          472148.10
       3752531.53       5.85289  (13112916)
       472052.12   3752531.22      7.01162  (13112916)          471975.52
       3752531.22       5.31845  (13112916)
       471896.06   3752530.90      5.64905  (13062606)          471840.76
       3752529.94       5.81158  (13062606)
       471816.60   3752527.08      5.87738  (13062606)          471736.82
       3752557.91       5.60533  (13112916)
       471696.59   3752558.87      6.10751  (13112916)          471627.29
       3752556.22       5.96404  (13112916)
       471584.60   3752556.76      6.08388  (13062606)          471560.01
       3752556.22       6.10981  (13062606)
       471534.35   3752554.87      6.09663  (13062606)          471514.89
       3752554.87       6.04613  (13062606)
       471486.79   3752555.68      6.00309  (13062606)          471465.72
       3752555.41       5.97372  (13062606)
       471442.21   3752554.98      5.90879  (13062606)          471419.71
       3752552.46       5.91040  (13062606)
       471394.22   3752552.91      5.89372  (13062606)          471363.44
       3752552.46       5.90958  (13062606)
       471332.68   3752553.31      5.88913  (13062606)          471307.62
       3752552.94       5.88018  (13062606)
       471284.05   3752552.70      5.85124  (13062606)          471261.98
       3752552.70       5.83111  (13062606)
       471241.90   3752552.70      5.82449  (13062606)          471223.15
       3752552.86       5.82462  (13062606)
```

```
471205.90    3752552.86         5.82927   (13062606)                   471173.21
 3752552.37         5.84177   (13062606)
471135.70    3752552.53         5.78776   (13062606)                   471093.22
 3752551.54         5.64333   (15100406)
471059.37    3752551.70         5.66508   (15062802)                   471020.54
 3752551.20         5.29278   (15062802)
470981.05    3752563.65         4.70314   (13083019)                   470980.39
 3752552.20         4.86827   (13083019)
470980.06    3752535.61         5.11547   (13083019)                   470979.89
 3752517.19         5.39023   (13083019)
470980.06    3752499.76         5.62812   (13083019)                   470980.22
 3752479.85         5.96474   (14090307)
470980.39    3752459.44         6.83456   (14090307)                   470980.22
 3752433.22         7.37482   (14090307)
470980.06    3752404.02         7.24273   (13062606)                   470927.12
 3752402.69         5.37236   (13062606)
470907.87    3752402.69         4.93993   (13062606)                   470887.30
 3752402.69         4.55508   (13062606)
470869.71    3752402.03         4.29660   (13062606)                   470849.63
 3752401.86         4.03725   (13062606)
470829.39    3752402.19         3.80691   (13062606)                   470811.63
 3752402.19         3.62826   (13062606)
470791.55    3752402.53         3.44432   (13062606)                   470773.63
 3752401.86         3.29837   (15042903)
470749.24    3752402.19         3.14947   (15042903)                   470727.72
 3752391.74         3.05329   (15042903)
470733.04    3752338.97         3.20279   (13062606)                   470733.70
 3752320.55         3.25984   (13062606)
470734.20    3752291.01         3.34672   (13062606)                   470733.20
 3752265.78         3.40388   (13062606)
470732.87    3752218.81         3.51955   (13062606)                   470732.54
 3752182.14         3.60730   (13062606)
470732.37    3752145.29         3.69905   (13062606)                   470692.38
 3752144.80         3.36973   (13062606)
470670.14    3752144.46         3.20668   (13062606)                   470651.72
 3752144.30         3.08270   (13062606)
470633.46    3752144.13         2.96482   (13062606)                   470615.54
 3752143.97         2.85588   (13062606)
470595.95    3752143.30         2.74468   (13062606)                   470577.03
 3752143.47         2.65721   (14091620)
470553.63    3752143.47         2.58553   (15071822)                   470528.57
 3752142.64         2.51355   (15071820)
470507.99    3752142.80         2.45060   (15071820)                   470485.59
 3752142.47         2.38515   (15071820)
470471.60    3752131.63         2.36085   (15071820)                   470471.60
 3752109.21         2.39082   (15071820)
470471.32    3752085.22         2.41690   (15071820)                   470471.46
 3752037.68         2.47316   (15071822)
470471.74    3752013.00         2.49782   (12010420)                   470470.89
 3751987.18         2.51631   (16111021)
470470.89    3751965.74         2.53660   (16111021)                   470470.75
 3751944.44         2.55410   (16111021)
```

                    PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                      SOURCE GROUP: ALL   ***
                        INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                        VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,

                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                    ** CONC OF NOX   IN
                       MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
- -
- - - - - - - - - - - - - - - - - -
     470470.61   3751924.27   2.56297 (16111021)   470470.47
     3751905.93   2.56573 (16111021)
     470470.89   3751884.06   2.58168 (16110919)   470470.61
     3751864.03   2.59098 (16110919)
     470470.33   3751844.00   2.59192 (16110919)   470470.19
     3751824.53   2.58174 (16110919)
     470470.33   3751805.77   2.57850 (16110818)   470470.33
     3751788.00   2.57543 (16110818)
     470470.33   3751761.19   2.61894 (16110818)   470471.03
     3751741.87   2.65057 (16110818)
     470470.05   3751722.82   2.67314 (16110818)   470470.19
     3751703.36   2.70731 (14051420)
     470470.19   3751683.75   2.74022 (14051420)   470470.33
     3751664.28   2.76641 (14051420)
     470470.33   3751642.41   2.79115 (14051420)   470470.47
     3751621.82   2.80453 (14051420)
     470470.19   3751599.81   2.80843 (14051420)   470470.61
     3751578.79   2.80585 (14051420)
     470469.62   3751555.94   2.77694 (14051420)   470470.05
     3751512.49   2.71543 (14051420)
     470468.64   3751414.59   2.59134 (16062003)   470469.76
     3751385.25   2.65009 (16062003)
     470468.65   3751358.95   2.66025 (16062003)   470462.93
     3751325.56   2.64096 (16062003)
     470461.98   3751310.62   2.63310 (13050223)   470462.61
     3751296.63   2.62416 (13050223)
     470462.61   3751283.28   2.61018 (13050223)   470462.61
     3751269.92   2.59081 (13050223)
     470462.93   3751254.35   2.56632 (13050223)   470461.98
     3751240.67   2.54372 (13050223)
     470463.25   3751227.64   2.53615 (13050223)   470756.39
     3751290.59   3.48162 (14100421)
     470797.72   3751268.33   3.60457 (14100421)   470891.19
     3751226.38   4.01700 (13083002)
     470940.78   3751191.82   4.17173 (15090923)   471000.61
     3750923.63   3.74184 (15031222)
     471029.26   3750923.63   3.77917 (15031222)   471056.29
     3750923.90   3.93601 (14072222)
     471077.91   3750924.44   4.06995 (14072222)   471097.64
     3750924.44   4.46524 (14072222)
     471118.18   3750924.98   4.94058 (15073004)   471138.99
     3750927.42   5.43090 (14070703)
     471160.07   3750928.77   5.87053 (14070703)   471181.15
     3750931.47   6.71360 (12111622)
     471201.69   3750930.93   7.17883 (12111622)   471222.50
     3750931.47   7.38041 (15102720)
     471244.13   3750931.20   7.76285 (15102720)   471264.40
     3750931.74   8.06324 (15102720)
     471284.40   3750931.74   8.27015 (13090322)   471305.75
     3750931.74   8.38171 (13090322)
     471324.67   3750930.93   8.17643 (13090322)   471343.05
     3750930.12   7.95212 (13070301)

```
     471363.86   3750929.04        7.78063  (14092602)              471381.96
     3750928.77        7.72878  (14092602)
     471400.88   3750928.23        7.71873  (15091223)              471421.15
     3750927.96        7.67823  (15091223)
     471440.59   3750928.11        7.56469  (12091920)              471461.83
     3750927.45        7.43852  (12091920)
     471479.76   3750927.95        7.33968  (13090522)              471499.68
     3750927.62        7.26902  (13090522)
     471519.26   3750928.78        7.19110  (13090522)              471537.02
     3750929.61        7.31947  (13090522)
     471556.77   3750930.94        7.34306  (13090522)              471580.68
     3750934.09        7.65472  (13090522)
     471624.00   3750940.23        7.82066  (13090322)              471795.90
     3750950.11        7.52029  (14070402)
     471796.29   3750967.88        7.60132  (14070402)              471796.69
     3750987.22        7.64098  (15100222)
     471797.47   3751006.75        7.56055  (15100222)              471796.69
     3751025.30        7.58459  (15100222)
     471795.90   3751046.40        7.63643  (12092021)              471796.69
     3751072.96        7.64569  (12092021)
     471797.47   3751143.85        7.61096  (12092021)              471833.01
     3751143.85        7.13685  (12092021)
     471867.38   3751144.05        6.37927  (12081722)              471891.02
     3751144.44        5.33430  (12081722)
     471916.60   3751144.24        4.30340  (12081621)              471939.45
     3751144.24        4.04435  (14083024)
     471963.08   3751144.44        3.77625  (15041821)              471984.17
     3751144.05        3.68672  (15041821)
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:29:12

                   PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):   VOL1        , VOL2        ,
                                 VOL3        , VOL4        , VOL5        ,
                   VOL6       , VOL7        , VOL8        , VOL9        , VOL10       ,
                   VOL11      , VOL12       , VOL13       ,
                   VOL14      , VOL15       , VOL16       , VOL17       , VOL18       ,
                   VOL19      , VOL20       , VOL21       ,
                   VOL22      , VOL23       , VOL24       , VOL25       , VOL26       ,
                   VOL27      , VOL28       ,  . . .      ,


                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF NOX      IN
                              MICROGRAMS/M**3                              **


   X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)           X-COORD (M)  Y-COORD
   (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
     471999.02   3751163.38        3.68811  (15041821)              472000.19
     3751199.12        4.12091  (15092721)
     471999.80   3751230.56        4.98782  (16061922)              472000.38
     3751251.46        5.59811  (16061922)
     472000.19   3751281.15        5.97911  (14091022)              472001.95
     3751347.94        6.60050  (12080621)
     472036.90   3751348.52        5.96142  (12080624)              472063.07
     3751349.31        5.71103  (12080524)
     472084.56   3751348.33        5.44726  (13063022)              472104.87
     3751348.72        5.10192  (13082222)
```

472127.33	3751348.52	4.56482	(12081422)	472150.76
3751349.70		4.02741	(14091223)	
472171.47	3751349.50	3.75946	(12081622)	472194.12
3751349.11		3.63708	(15081620)	
472222.63	3751348.72	3.46487	(16082920)	472247.83
3751349.50		3.31770	(16082920)	
472269.70	3751349.11	3.12015	(16082920)	472290.40
3751350.28		3.05776	(16082920)	
472313.64	3751350.48	2.99309	(16082920)	472333.76
3751351.26		2.93134	(16082920)	
472354.85	3751351.26	2.79806	(16082920)	472377.70
3751351.06		2.68263	(16082920)	
472401.72	3751351.06	2.56144	(16081620)	472425.55
3751351.84		2.41827	(15102418)	
472445.67	3751350.67	2.37742	(15102418)	472463.24
3751350.87		2.31011	(15102418)	
472484.14	3751350.87	2.25647	(15102418)	472503.87
3751351.26		2.21713	(15102418)	
472523.79	3751351.26	2.18684	(15102418)	472543.32
3751351.26		2.15984	(15102418)	
472563.24	3751352.24	2.12851	(15102418)	472582.57
3751352.04		2.09744	(15102418)	
472601.32	3751352.04	2.06676	(15102418)	472606.79
3751367.27		2.05892	(15091321)	
472607.57	3751396.37	2.08038	(15091321)	472608.55
3751432.11		2.11202	(15070221)	
472608.94	3751462.58	2.13029	(15070221)	472609.52
3751497.15		2.16217	(14072920)	
472610.70	3751553.78	2.21962	(12080920)	472665.97
3751553.98		2.10039	(12080920)	
472690.38	3751553.59	2.05235	(12080920)	472713.50
3751554.27		2.01722	(12080920)	
472734.64	3751554.04	1.97893	(12080920)	472759.46
3751554.04		1.93399	(12080920)	
472781.75	3751554.50	1.89741	(12080920)	472849.76
3751556.11		1.82486	(12080920)	
472871.82	3751556.11	1.79669	(12080920)	472895.25
3751555.65		1.76562	(12080920)	
472922.60	3751555.88	1.73423	(12080920)	473092.41
3751802.31		1.59487	(13082619)	
473204.80	3751856.81	1.49079	(13082920)	472991.21
3752083.31		1.72647	(16082919)	
473295.12	3752052.49	1.40931	(13090121)	473356.76
3752050.34		1.35462	(12080821)	
473495.10	3751996.58	1.26241	(13070920)	473486.50
3751917.74		1.26500	(13082920)	
473392.60	3752058.22	1.32667	(13090121)	473464.28
3752082.59		1.27912	(13090121)	
473550.29	3752087.61	1.21740	(13090121)	473584.69
3752089.76		1.19765	(13090121)	
472765.59	3752474.09	1.94991	(16062023)	470432.16
3750483.93		3.40039	(16100620)	
469244.06	3754182.82	0.74440	(14091624)	469596.75
3750785.65		1.26122	(15021122)	
470466.55	3750530.27	3.88977	(12091321)	469319.29
3749244.53		0.77848	(15100924)	
469229.64	3749502.19	0.82342	(15031221)	468465.38
3749582.33		0.67037	(14051321)	
471438.37	3750129.76	4.34466	(16102220)	471657.54
3749918.78		3.24695	(14092602)	
471732.91	3749916.52	3.08144	(15091223)	471710.30
3750132.80		3.82043	(15091223)	
471273.89	3750119.77	4.56002	(15073004)	470973.43
3752300.84		7.27062	(13062606)	
470973.95	3752278.41	7.44002	(13062606)	470973.95
3752235.65		7.75363	(13062606)	

```
       470971.86    3752174.63         7.86937  (13062606)                       470967.17
          3752139.16         7.85370  (13062606)
       470962.47    3752110.48         7.91458  (13062606)                       470952.57
          3752077.10         7.90922  (13062606)
```

                    PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF NOX   IN
                              MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - -
       470935.35   3752029.11   7.67247 (13062606)   470922.32
          3751998.86   7.45799 (13062606)
       470910.32   3751966.53   7.52748 (13062606)   470891.54
          3751915.42   7.83512 (13062606)
       470880.59   3751877.86   8.03196 (13062606)   470874.85
          3751848.14   8.02425 (13062606)
       470871.72   3751810.58   7.84441 (13062606)   470871.20
          3751779.29   7.57133 (13062606)
       470872.25   3751740.70   7.30142 (13062606)   470876.42
          3751710.45   7.27631 (13062606)
       470884.76   3751671.85   7.42872 (13062606)   470900.41
          3751616.57   7.71913 (13062606)
       470911.88   3751582.67   7.77216 (13062606)   470919.71
          3751556.07   7.68738 (13062606)
       470931.18   3751524.25   7.66728 (13062606)   470940.05
          3751496.61   7.60705 (13062606)
       470951.52   3751461.14   7.43231 (13062606)   470961.95
          3751424.64   7.04856 (13041207)
```

                    PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***

                              ** CONC OF NOX        IN
                              MICROGRAMS/M**3                              **

                                        DATE

```
                                                              NETWORK
GROUP ID                        AVERAGE CONC    (YYMMDDHH)          RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS      8.38171  ON 13090322: AT (  471305.75,  3750931.74,
536.50,   536.50,    2.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
▓▓ *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
  ***                                                    ***          17:29:12


                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1638 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of         1039 Calm Hours Identified

 A Total of          599 Missing Hours Identified (  1.37 Percent)


    ******** FATAL ERROR MESSAGES ********
            ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    **********************************
    *** AERMOD Finishes Successfully ***
    **********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/2/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM10 Mit\14064
Ops PM10 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_10
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM10 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172  3751619.077      534.860
```

```
     LOCATION VOL29          VOLUME      471577.888   3751616.698        529.000
     LOCATION VOL30          VOLUME      471724.580   3751620.663        533.750
     LOCATION VOL31          VOLUME      471941.049   3751865.677        534.600
     LOCATION VOL32          VOLUME      471795.151   3751684.890        537.260
     LOCATION VOL33          VOLUME      471577.888   3751434.325        531.060
     LOCATION VOL34          VOLUME      471389.965   3751431.946        537.260
     LOCATION VOL35          VOLUME      471202.041   3751467.628        526.830
     LOCATION VOL36          VOLUME      471065.657   3751504.895        521.960
     LOCATION VOL37          VOLUME      471656.388   3751514.411        529.480
     LOCATION VOL38          VOLUME      471522.384   3751324.108        529.000
     LOCATION VOL39          VOLUME      471332.874   3751322.522        529.530
     LOCATION VOL40          VOLUME      471282.920   3751321.729        528.170
     LOCATION VOL41          VOLUME      471233.758   3751388.335        528.470
     LOCATION VOL48          VOLUME      471084.506   3752407.221        506.810
**   Source Parameters **
     SRCPARAM VOL1       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL2       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL3       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL4       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL5       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL6       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL7       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL8       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL9       0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL10      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL11      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL12      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL13      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL14      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL15      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL16      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL17      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL18      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL19      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL20      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL21      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL22      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL23      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL24      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL25      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL26      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL27      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL28      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL29      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL30      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL31      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL32      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL33      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL34      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL35      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL36      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL37      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL38      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL39      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL40      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL41      0.0077614694      5.000     43.702     1.400
     SRCPARAM VOL48      0.0077614694      5.000     43.702     1.400
     URBANSRC ALL
     SRCGROUP ALL
SO FINISHED
**
*******************************************
** AERMOD Receptor Pathway
*******************************************
**
**
```

```
RE STARTING
   INCLUDED "14064 Ops PM10 Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST "14064 OPS PM10 MIT.AD\24H1GALL.PLT" 31
   SUMMFILE "14064 Ops PM10 Mit.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)



     ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***



     ********   WARNING MESSAGES   ********
 ME W186      146       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187      146       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        17:33:05


                    PAGE   1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        ***    MODEL SETUP OPTIONS SUMMARY      ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
       * Model Is Setup For Calculation of Average CONCentration Values.
       * NO GAS DEPOSITION Data Provided.
       * NO PARTICLE DEPOSITION Data Provided.
       * Model Uses NO DRY DEPLETION. DDPLETE  =  F
       * Model Uses NO WET DEPLETION. WETDPLT  =  F
       * Stack-tip Downwash.
       * Model Accounts for ELEVated Terrain Effects.
       * Use Calms Processing Routine.
       * Use Missing Data Processing Routine.
       * No Exponential Decay.
       * Model Uses URBAN Dispersion Algorithm for the SBL for    42 Source(s),
         for Total of    1 Urban Area(s):
    Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
       * Urban Roughness Length of 1.0 Meter Used.
       * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       * CCVR_Sub - Meteorological data includes CCVR substitutions
       * TEMP_Sub - Meteorological data includes TEMP substitutions
       * Model Accepts FLAGPOLE Receptor . Heights.
       * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:      42 Source(s);        1 Source Group(s); and      258 Receptor(s)

                with:       0 POINT(s), including
                            0 POINTCAP(s) and       0 POINTHOR(s)
                 and:      42 VOLUME source(s)
                 and:       0 AREA type source(s)
                 and:       0 LINE source(s)
                 and:       0 RLINE/RLINEXT source(s)
                 and:       0 OPENPIT source(s)
                 and:       0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:       0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =      0.0
                 Emission Units = GRAMS/SEC                                  ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =       3.5 MB of RAM.

 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14064 Ops PM10
 Mit.err
 **File for Summary of Results:   14064 Ops PM10
 Mit.sum
```

🔲 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 11/02/23
*** AERMET - VERSION 16216 ***
*** *** 17:33:05

PAGE 2
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.77615E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.77615E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.77615E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.77615E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.77615E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.77615E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.77615E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.77615E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.77615E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.77615E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.77615E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.77615E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.77615E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.77615E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.77615E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.77615E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.77615E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.77615E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.77615E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.77615E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.77615E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.77615E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.77615E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40

```
VOL24        0   0.77615E-02  471093.4 3751841.9   515.6    5.00    43.70    1.40
 YES
VOL25        0   0.77615E-02  470978.4 3751841.9   518.1    5.00    43.70    1.40
 YES
VOL26        0   0.77615E-02  471014.1 3751654.8   520.4    5.00    43.70    1.40
 YES
VOL27        0   0.77615E-02  471201.2 3751654.8   525.1    5.00    43.70    1.40
 YES
VOL28        0   0.77615E-02  471389.2 3751619.1   534.9    5.00    43.70    1.40
 YES
VOL29        0   0.77615E-02  471577.9 3751616.7   529.0    5.00    43.70    1.40
 YES
VOL30        0   0.77615E-02  471724.6 3751620.7   533.8    5.00    43.70    1.40
 YES
VOL31        0   0.77615E-02  471941.0 3751865.7   534.6    5.00    43.70    1.40
 YES
VOL32        0   0.77615E-02  471795.2 3751684.9   537.3    5.00    43.70    1.40
 YES
VOL33        0   0.77615E-02  471577.9 3751434.3   531.1    5.00    43.70    1.40
 YES
VOL34        0   0.77615E-02  471390.0 3751431.9   537.3    5.00    43.70    1.40
 YES
VOL35        0   0.77615E-02  471202.0 3751467.6   526.8    5.00    43.70    1.40
 YES
VOL36        0   0.77615E-02  471065.7 3751504.9   522.0    5.00    43.70    1.40
 YES
VOL37        0   0.77615E-02  471656.4 3751514.4   529.5    5.00    43.70    1.40
 YES
VOL38        0   0.77615E-02  471522.4 3751324.1   529.0    5.00    43.70    1.40
 YES
VOL39        0   0.77615E-02  471332.9 3751322.5   529.5    5.00    43.70    1.40
 YES
VOL40        0   0.77615E-02  471282.9 3751321.7   528.2    5.00    43.70    1.40
 YES
```

🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:33:05

                 PAGE   3
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - - -

```
VOL41        0   0.77615E-02  471233.8 3751388.3   528.5    5.00    43.70    1.40
 YES
VOL48        0   0.77615E-02  471084.5 3752407.2   506.8    5.00    43.70    1.40
 YES
```

🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** AERMET - VERSION 16216 ***
 ***   ***   17:33:05

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

  SRCGROUP ID                                            SOURCE IDs
  -----------                                            ----------


   ALL        VOL1       , VOL2       , VOL3       , VOL4       , VOL5       , VOL6       ,
   VOL7       , VOL8       ,

              VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
              VOL15      , VOL16      ,

              VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
              VOL23      , VOL24      ,

              VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
              VOL31      , VOL32      ,

              VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
              VOL39      , VOL40      ,

              VOL41      , VOL48      ,
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*


```
                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                   SOURCE IDs
  --------   ---------                                   ----------


             2189641.  VOL1       , VOL2       , VOL3       , VOL4       , VOL5       ,
             VOL6       , VOL7       ,
  VOL8       ,

              VOL9       , VOL10      , VOL11      , VOL12      , VOL13      , VOL14      ,
              VOL15      , VOL16      ,

              VOL17      , VOL18      , VOL19      , VOL20      , VOL21      , VOL22      ,
              VOL23      , VOL24      ,

              VOL25      , VOL26      , VOL27      , VOL28      , VOL29      , VOL30      ,
              VOL31      , VOL32      ,

              VOL33      , VOL34      , VOL35      , VOL36      , VOL37      , VOL38      ,
              VOL39      , VOL40      ,

              VOL41      , VOL48      ,
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:33:05

                  PAGE   6
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                          *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                      (METERS)
```

```
                500.9,        500.9,          2.0);
( 470596.0, 3752143.3,        500.2,        500.2,          2.0);          ( 470577.0, 3752143.5,
  500.0,        500.0,          2.0);
( 470553.6, 3752143.5,        499.7,        499.7,          2.0);          ( 470528.6, 3752142.6,
  498.8,        498.8,          2.0);
( 470508.0, 3752142.8,        497.6,        497.6,          2.0);          ( 470485.6, 3752142.5,
  496.3,        496.3,          2.0);
( 470471.6, 3752131.6,        496.1,        496.1,          2.0);          ( 470471.6, 3752109.2,
  497.3,        497.3,          2.0);
( 470471.3, 3752085.2,        498.1,        498.1,          2.0);          ( 470471.5, 3752037.7,
  499.7,        499.7,          2.0);
( 470471.7, 3752013.0,        500.0,        500.0,          2.0);          ( 470470.9, 3751987.2,
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( 470470.9, 3751965.7,        500.1,        500.1,          2.0);          ( 470470.8, 3751944.4,
  500.1,        500.1,          2.0);
( 470470.6, 3751924.3,        499.6,        499.6,          2.0);          ( 470470.5, 3751905.9,
  499.0,        499.0,          2.0);
( 470470.9, 3751884.1,        499.1,        499.1,          2.0);          ( 470470.6, 3751864.0,
  498.6,        498.6,          2.0);
( 470470.3, 3751844.0,        497.9,        497.9,          2.0);          ( 470470.2, 3751824.5,
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( 470470.3, 3751805.8,        495.7,        499.0,          2.0);          ( 470470.3, 3751788.0,
  495.1,        502.0,          2.0);
( 470470.3, 3751761.2,        497.6,        497.6,          2.0);          ( 470471.0, 3751741.9,
  499.5,        499.5,          2.0);
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
*** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                             (METERS)

```
( 470470.0, 3751722.8,        501.4,        501.4,          2.0);          ( 470470.2, 3751703.4,
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( 470470.2, 3751683.8,        504.9,        504.9,          2.0);          ( 470470.3, 3751664.3,
  506.2,        506.2,          2.0);
( 470470.3, 3751642.4,        507.6,        507.6,          2.0);          ( 470470.5, 3751621.8,
  508.5,        508.5,          2.0);
( 470470.2, 3751599.8,        509.0,        509.0,          2.0);          ( 470470.6, 3751578.8,
  509.1,        509.1,          2.0);
( 470469.6, 3751555.9,        507.6,        507.6,          2.0);          ( 470470.0, 3751512.5,
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( 470468.6, 3751414.6,        501.8,        513.0,          2.0);          ( 470469.8, 3751385.2,
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( 470462.0, 3751310.6,        512.6,        512.6,          2.0);          ( 470462.6, 3751296.6,
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( 470462.6, 3751283.3,        512.0,        512.0,          2.0);          ( 470462.6, 3751269.9,
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( 470463.2, 3751227.6,        509.4,        509.4,          2.0);          ( 470756.4, 3751290.6,
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( 470797.7, 3751268.3,        507.7,        525.0,          2.0);          ( 470891.2, 3751226.4,
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( 470940.8, 3751191.8,        512.1,        512.1,          2.0);          ( 471000.6, 3750923.6,
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( 471029.3, 3750923.6,        523.7,        523.7,          2.0);          ( 471056.3, 3750923.9,
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( 471077.9, 3750924.4,        524.8,        543.0,          2.0);          ( 471097.6, 3750924.4,
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( 471160.1, 3750928.8,    530.8,       543.0,        2.0);            ( 471181.1, 3750931.5,
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( 471201.7, 3750930.9,    533.3,       543.0,        2.0);            ( 471222.5, 3750931.5,
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( 471244.1, 3750931.2,    534.8,       543.0,        2.0);            ( 471264.4, 3750931.7,
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( 471284.4, 3750931.7,    536.5,       536.5,        2.0);            ( 471305.8, 3750931.7,
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( 471324.7, 3750930.9,    535.8,       535.8,        2.0);            ( 471343.0, 3750930.1,
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( 471363.9, 3750929.0,    534.7,       534.7,        2.0);            ( 471382.0, 3750928.8,
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( 471400.9, 3750928.2,    535.0,       535.0,        2.0);            ( 471421.1, 3750928.0,
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( 471479.8, 3750927.9,    535.9,       535.9,        2.0);            ( 471499.7, 3750927.6,
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( 471519.3, 3750928.8,    536.6,       549.0,        2.0);            ( 471537.0, 3750929.6,
  538.0,       549.0,        2.0);
( 471556.8, 3750930.9,    539.6,       549.0,        2.0);            ( 471580.7, 3750934.1,
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( 471624.0, 3750940.2,    545.0,       549.0,        2.0);            ( 471795.9, 3750950.1,
  548.4,       548.4,        2.0);
( 471796.3, 3750967.9,    547.3,       547.3,        2.0);            ( 471796.7, 3750987.2,
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( 471797.5, 3751006.8,    542.7,       549.0,        2.0);            ( 471796.7, 3751025.3,
  542.0,       547.0,        2.0);
( 471795.9, 3751046.4,    541.1,       541.1,        2.0);            ( 471796.7, 3751073.0,
  540.1,       540.1,        2.0);
( 471797.5, 3751143.8,    537.7,       537.7,        2.0);            ( 471833.0, 3751143.8,
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( 471867.4, 3751144.0,    534.9,       534.9,        2.0);            ( 471891.0, 3751144.4,
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( 471916.6, 3751144.2,    530.9,       530.9,        2.0);            ( 471939.5, 3751144.2,
  529.4,       529.4,        2.0);
( 471963.1, 3751144.4,    525.8,       535.0,        2.0);            ( 471984.2, 3751144.0,
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( 471999.0, 3751163.4,    525.3,       536.0,        2.0);            ( 472000.2, 3751199.1,
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( 471999.8, 3751230.6,    532.9,       532.9,        2.0);            ( 472000.4, 3751251.5,
  534.3,       534.3,        2.0);
( 472000.2, 3751281.1,    536.2,       536.2,        2.0);            ( 472002.0, 3751347.9,
  537.0,       537.0,        2.0);
( 472036.9, 3751348.5,    536.6,       536.6,        2.0);            ( 472063.1, 3751349.3,
  536.5,       536.5,        2.0);
( 472084.6, 3751348.3,    535.8,       535.8,        2.0);            ( 472104.9, 3751348.7,
  534.6,       534.6,        2.0);
( 472127.3, 3751348.5,    533.0,       533.0,        2.0);            ( 472150.8, 3751349.7,
  531.4,       531.4,        2.0);
( 472171.5, 3751349.5,    530.3,       530.3,        2.0);            ( 472194.1, 3751349.1,
  528.2,       531.0,        2.0);
( 472222.6, 3751348.7,    525.4,       536.0,        2.0);            ( 472247.8, 3751349.5,
  523.2,       536.0,        2.0);
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( 472313.6, 3751350.5,    520.9,       532.0,        2.0);            ( 472333.8, 3751351.3,
  520.6,       532.0,        2.0);
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           512.0,       512.0,        2.0);
      ( 470935.3, 3752029.1,      508.7,      512.0,        2.0);          ( 470922.3, 3751998.9,
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      ( 470910.3, 3751966.5,      508.0,      508.0,        2.0);          ( 470891.5, 3751915.4,
      510.8,       510.8,        2.0);
      ( 470880.6, 3751877.9,      512.3,      512.3,        2.0);          ( 470874.8, 3751848.1,
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      ( 470871.7, 3751810.6,      517.1,      517.1,        2.0);          ( 470871.2, 3751779.3,
      517.1,       517.1,        2.0);
      ( 470872.2, 3751740.7,      515.6,      515.6,        2.0);          ( 470876.4, 3751710.4,
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      ( 470884.8, 3751671.8,      514.8,      514.8,        2.0);          ( 470900.4, 3751616.6,
      516.8,       516.8,        2.0);
      ( 470911.9, 3751582.7,      518.5,      518.5,        2.0);          ( 470919.7, 3751556.1,
      518.3,       518.3,        2.0);
      ( 470931.2, 3751524.2,      516.9,      516.9,        2.0);          ( 470940.0, 3751496.6,
      515.6,       515.6,        2.0);
      ( 470951.5, 3751461.1,      514.4,      514.4,        2.0);          ( 470962.0, 3751424.6,
      513.8,       513.8,        2.0);
```

▫▫ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:33:05

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

           NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
           INCLUDED IN THE DATA FILE.

                             *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                             ***
                                         (METERS/SEC)

                               1.54,   3.09,   5.14,   8.23,   10.80,

▫▫ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
  ***   ***   17:33:05

                 PAGE 10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                  *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.    37.0  0.15  2.40  1.00    2.06
75.   10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1  55.     2.93   288.2   99.0 -99.00  -99.00


F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
*** AERMET - VERSION  16216 ***
***                                                            ***        17:33:05


                    PAGE  11
*** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                       *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                       SOURCE GROUP:  ALL      ***
                          INCLUDING SOURCE(S):    VOL1        , VOL2         ,
                          VOL3         , VOL4        , VOL5        ,
           VOL6      , VOL7       , VOL8       , VOL9       , VOL10       ,
           VOL11     , VOL12      , VOL13      ,
           VOL14     , VOL15      , VOL16      , VOL17       , VOL18       ,
           VOL19     , VOL20      , VOL21      ,
           VOL22     , VOL23      , VOL24      , VOL25       , VOL26       ,
           VOL27     , VOL28      ,  . . .     ,


                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                    ** CONC OF PM_10     IN
                    MICROGRAMS/M**3                          **


   X-COORD (M)  Y-COORD (M)       CONC     (YYMMDDHH)            X-COORD (M)  Y-COORD
    (M)       CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       472283.74   3752640.98     0.74180  (12121824)             472482.23
       3752398.04      0.78069  (12120224)
       472477.97   3752183.12     0.88533  (12120224)             472148.10
       3752531.53      1.14282  (12121824)
       472052.12   3752531.22     1.40953  (13121924)             471975.52
       3752531.22      1.60113  (13121924)
       471896.06   3752530.90     1.71194  (13121924)             471840.76
       3752529.94      1.75868  (13121924)
       471816.60   3752527.08     1.76353  (13121924)             471736.82
       3752557.91      1.66638  (13121924)
       471696.59   3752558.87     1.68852  (13121924)             471627.29
       3752556.22      1.80488  (13121924)
       471584.60   3752556.76     1.86150  (13121924)             471560.01
       3752556.22      1.87083  (13121924)
       471534.35   3752554.87     1.85937  (13121924)             471514.89
       3752554.87      1.83770  (13121924)
       471486.79   3752555.68     1.82876  (13121924)             471465.72
       3752555.41      1.81999  (13121924)
       471442.21   3752554.98     1.79245  (13121924)             471419.71
       3752552.46      1.79001  (13121924)
       471394.22   3752552.91     1.79295  (13121924)             471363.44
       3752552.46      1.81195  (13121924)
       471332.68   3752553.31     1.81814  (13121924)             471307.62
       3752552.94      1.82068  (13121924)
       471284.05   3752552.70     1.81074  (13121924)             471261.98
       3752552.70      1.80560  (13121924)
       471241.90   3752552.70     1.80686  (13121924)             471223.15
       3752552.86      1.81226  (13121924)
```

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       471205.90    3752552.86        1.81910 (13121924)             471173.21
       3752552.37        1.83353 (13121924)
       471135.70    3752552.53        1.82676 (13121924)             471093.22
       3752551.54        1.78396 (13121924)
       471059.37    3752551.70        1.68881 (13121924)             471020.54
       3752551.20        1.53540 (13121924)
       470981.05    3752563.65        1.31175 (13121924)             470980.39
       3752552.20        1.36475 (13121924)
       470980.06    3752535.61        1.45149 (13121924)             470979.89
       3752517.19        1.56057 (13121924)
       470980.06    3752499.76        1.67616 (13121924)             470980.22
       3752479.85        1.81755 (13121924)
       470980.39    3752459.44        1.97353 (13121924)             470980.22
       3752433.22        2.14087 (13121924)
       470980.06    3752404.02        2.25950 (13121924)             470927.12
       3752402.69        1.64577 (13121924)
       470907.87    3752402.69        1.50270 (13121924)             470887.30
       3752402.69        1.37502 (13121924)
       470869.71    3752402.03        1.29347 (13121924)             470849.63
       3752401.86        1.21193 (13121924)
       470829.39    3752402.19        1.13976 (13121924)             470811.63
       3752402.19        1.08382 (13121924)
       470791.55    3752402.53        1.02612 (13121924)             470773.63
       3752401.86        0.98008 (13121924)
       470749.24    3752402.19        0.92229 (13121924)             470727.72
       3752391.74        0.88748 (13121924)
       470733.04    3752338.97        0.94759 (13121924)             470733.70
       3752320.55        0.96432b (16120624)
       470734.20    3752291.01        0.99077b (16120624)            470733.20
       3752265.78        1.00704b (16120624)
       470732.87    3752218.81        1.04094b (16120624)            470732.54
       3752182.14        1.06724b (16120624)
       470732.37    3752145.29        1.09626b (16120624)            470692.38
       3752144.80        0.99853b (16120624)
       470670.14    3752144.46        0.94996b (16120624)            470651.72
       3752144.30        0.91361b (16120624)
       470633.46    3752144.13        0.87810b (16120624)            470615.54
       3752143.97        0.84523b (16120624)
       470595.95    3752143.30        0.81166b (16120624)            470577.03
       3752143.47        0.78207b (16120624)
       470553.63    3752143.47        0.74806b (16120624)            470528.57
       3752142.64        0.71294b (16120624)
       470507.99    3752142.80        0.68466b (16120624)            470485.59
       3752142.47        0.65584b (16120624)
       470471.60    3752131.63        0.64724 (12122024)             470471.60
       3752109.21        0.66464 (12122024)
       470471.32    3752085.22        0.68106 (12122024)             470471.46
       3752037.68        0.71335 (12122024)
       470471.74    3752013.00        0.72861 (12122024)             470470.89
       3751987.18        0.74336m (13010324)
       470470.89    3751965.74        0.75784m (13010324)            470470.75
       3751944.44        0.77151m (13010324)
```

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                       SOURCE GROUP: ALL   ***
                          INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,

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             VOL14        , VOL15        , VOL16        , VOL17        , VOL18        ,
             VOL19        , VOL20        , VOL21        ,
             VOL22        , VOL23        , VOL24        , VOL25        , VOL26        ,
             VOL27        , VOL28        ,  . . .        ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                            ** CONC OF PM_10     IN
                               MICROGRAMS/M**3                                    **


     X-COORD (M)  Y-COORD (M)        CONC      (YYMMDDHH)          X-COORD (M)  Y-COORD
      (M)         CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      470470.61   3751924.27        0.78254m (13010324)           470470.47
      3751905.93        0.79134m (13010324)
      470470.89   3751884.06        0.80509m (13010324)           470470.61
      3751864.03        0.81444m (13010324)
      470470.33   3751844.00        0.82162m (13010324)           470470.19
      3751824.53        0.82559m (13010324)
      470470.33   3751805.77        0.83065m (13010324)           470470.33
      3751788.00        0.83655  (12010124)
      470470.33   3751761.19        0.86038  (12010124)           470471.03
      3751741.87        0.87807  (12010124)
      470470.05   3751722.82        0.89225  (12010124)           470470.19
      3751703.36        0.90732  (12010124)
      470470.19   3751683.75        0.91934  (12010124)           470470.33
      3751664.28        0.92941  (12010124)
      470470.33   3751642.41        0.93920  (12010124)           470470.47
      3751621.82        0.94547  (12010124)
      470470.19   3751599.81        0.94879  (12010124)           470470.61
      3751578.79        0.95021  (12010124)
      470469.62   3751555.94        0.94337  (12010124)           470470.05
      3751512.49        0.92813  (12010124)
      470468.64   3751414.59        0.89571  (13121524)           470469.76
      3751385.25        0.91548  (13121524)
      470468.65   3751358.95        0.91903  (13121524)           470462.93
      3751325.56        0.91188  (13121524)
      470461.98   3751310.62        0.90887  (13121524)           470462.61
      3751296.63        0.90527  (13121524)
      470462.61   3751283.28        0.89997  (13121524)           470462.61
      3751269.92        0.89300  (13121524)
      470462.93   3751254.35        0.88427  (13121524)           470461.98
      3751240.67        0.87591  (13121524)
      470463.25   3751227.64        0.87262  (13121524)           470756.39
      3751290.59        1.23968  (13121524)
      470797.72   3751268.33        1.27128  (13121524)           470891.19
      3751226.38        1.37452  (13121524)
      470940.78   3751191.82        1.37897  (13122424)           471000.61
      3750923.63        0.92553m (15020724)
      471029.26   3750923.63        0.94625  (15121524)           471056.29
      3750923.90        0.97973  (15121524)
      471077.91   3750924.44        1.00315  (15121524)           471097.64
      3750924.44        1.01711  (15121524)
      471118.18   3750924.98        1.03479  (15121524)           471138.99
      3750927.42        1.05382  (15121524)
      471160.07   3750928.77        1.07570  (12021624)           471181.15
      3750931.47        1.16034m (15020724)
      471201.69   3750930.93        1.21441m (15020724)           471222.50
      3750931.47        1.21693  (15022224)
      471244.13   3750931.20        1.26578  (15022224)           471264.40
      3750931.74        1.30456  (15022224)
      471284.40   3750931.74        1.32995  (15022224)           471305.75
      3750931.74        1.33333  (15022224)
      471324.67   3750930.93        1.31088  (15022224)           471343.05
      3750930.12        1.27645  (15022224)
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   471363.86   3750929.04        1.24433 (15022224)              471381.96
   3750928.77        1.22205 (15022224)
   471400.88   3750928.23        1.19861 (15022224)              471421.15
   3750927.96        1.17331 (15022224)
   471440.59   3750928.11        1.14559 (15022224)              471461.83
   3750927.45        1.11440 (15022224)
   471479.76   3750927.95        1.09519 (15022224)              471499.68
   3750927.62        1.07652 (15022224)
   471519.26   3750928.78        1.06542 (15022224)              471537.02
   3750929.61        1.09567 (15022224)
   471556.77   3750930.94        1.11429 (15022224)              471580.68
   3750934.09        1.15652 (15022224)
   471624.00   3750940.23        1.15558 (15022224)              471795.90
   3750950.11        1.02789 (13111624)
   471796.29   3750967.88        1.06187 (13111624)              471796.69
   3750987.22        1.11668b (16120624)
   471797.47   3751006.75        1.19658b (16120624)             471796.69
   3751025.30        1.26600b (16120624)
   471795.90   3751046.40        1.35611b (16120624)             471796.69
   3751072.96        1.46127b (16120624)
   471797.47   3751143.85        1.77694b (16120624)             471833.01
   3751143.85        1.72530b (16120624)
   471867.38   3751144.05        1.63253b (16120624)             471891.02
   3751144.44        1.52291b (16120624)
   471916.60   3751144.24        1.33559b (16120624)             471939.45
   3751144.24        1.28328b (16120624)
   471963.08   3751144.44        1.21572b (16120624)             471984.17
   3751144.05        1.17259b (16120624)
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                   PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                           *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                           SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                           ** CONC OF PM_10   IN
                           MICROGRAMS/M**3   **

    X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
    (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - -
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    471999.02   3751163.38        1.20125b (16120624)             472000.19
   3751199.12        1.33655b (16120624)
    471999.80   3751230.56        1.51284b (16120624)             472000.38
   3751251.46        1.61624b (16120624)
    472000.19   3751281.15        1.71519b (16120624)             472001.95
   3751347.94        1.89618b (16120624)
    472036.90   3751348.52        1.75954b (16120624)             472063.07
   3751349.31        1.69000b (16120624)
    472084.56   3751348.33        1.61745b (16120624)             472104.87
   3751348.72        1.54732b (16120624)
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472127.33    3751348.52        1.46233b (16120624)                    472150.76
3751349.70        1.34881b (16120624)
472171.47    3751349.50        1.29119b (16120624)                    472194.12
3751349.11        1.22506b (16120624)
472222.63    3751348.72        1.14598b (16120624)                    472247.83
3751349.50        1.07722b (16120624)
472269.70    3751349.11        1.01593b (16120624)                    472290.40
3751350.28        0.98896b (16120624)
472313.64    3751350.48        0.96074b (16120624)                    472333.76
3751351.26        0.93638b (16120624)
472354.85    3751351.26        0.88770b (16120624)                    472377.70
3751351.06        0.85301b (16120624)
472401.72    3751351.06        0.81941b (16120624)                    472425.55
3751351.84        0.78816b (16120624)
472445.67    3751350.67        0.76691b (16120624)                    472463.24
3751350.87        0.74604b (16120624)
472484.14    3751350.87        0.72317b (16120624)                    472503.87
3751351.26        0.70466b (16120624)
472523.79    3751351.26        0.68843b (16120624)                    472543.32
3751351.26        0.67356b (16120624)
472563.24    3751352.24        0.65827b (16120624)                    472582.57
3751352.04        0.64345b (16120624)
472601.32    3751352.04        0.62940b (16120624)                    472606.79
3751367.27        0.62892b (16120624)
472607.57    3751396.37        0.63792b (16120624)                    472608.55
3751432.11        0.65020b (16120624)
472608.94    3751462.58        0.65836b (16120624)                    472609.52
3751497.15        0.66937b (16120624)
472610.70    3751553.78        0.68489b (16120624)                    472665.97
3751553.98        0.63138b (16120624)
472690.38    3751553.59        0.60992b (16120624)                    472713.50
3751554.27        0.59238b (16120624)
472734.64    3751554.04        0.57557b (16120624)                    472759.46
3751554.04        0.55641b (16120624)
472781.75    3751554.50        0.54107  (16051524)                    472849.76
3751556.11        0.51302  (16051524)
472871.82    3751556.11        0.50317  (16051524)                    472895.25
3751555.65        0.49260  (16051524)
472922.60    3751555.88        0.48150  (16051524)                    473092.41
3751802.31        0.47412  (12050124)
473204.80    3751856.81        0.44070  (12050124)                    472991.21
3752083.31        0.49457  (12050124)
473295.12    3752052.49        0.39969  (12050124)                    473356.76
3752050.34        0.38294  (12050124)
473495.10    3751996.58        0.36021  (12050124)                    473486.50
3751917.74        0.36805  (12050124)
473392.60    3752058.22        0.37236  (12050124)                    473464.28
3752082.59        0.35124  (12050124)
473550.29    3752087.61        0.33138  (12050124)                    473584.69
3752089.76        0.32469  (12050124)
472765.59    3752474.09        0.47624  (12120224)                    470432.16
3750483.93        0.57409  (12122924)
469244.06    3754182.82        0.10748  (15030124)                    469596.75
3750785.65        0.37947  (13121524)
470466.55    3750530.27        0.65405  (12122924)                    469319.29
3749244.53        0.14254  (13010424)
469229.64    3749502.19        0.17370  (13010424)                    468465.38
3749582.33        0.15639  (12010424)
471438.37    3750129.76        0.54792  (15022224)                    471657.54
3749918.78        0.39164  (15022224)
471732.91    3749916.52        0.36264  (15022224)                    471710.30
3750132.80        0.45039  (15022224)
471273.89    3750119.77        0.50813  (15022224)                    470973.43
3752300.84        2.21135  (13121924)
470973.95    3752278.41        2.26602  (13121924)                    470973.95
3752235.65        2.35431  (13121924)
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     470971.86    3752174.63         2.37304  (13121924)                    470967.17
       3752139.16          2.37964  (13121924)
     470962.47    3752110.48         2.39390  (13121924)                    470952.57
       3752077.10          2.40348  (13121924)
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                   PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                         VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF PM_10   IN
                         MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - -
     470935.35   3752029.11   2.31309 (13121924)   470922.32
       3751998.86   2.22835 (13121924)
     470910.32   3751966.53   2.26800 (13121924)   470891.54
       3751915.42   2.38462 (13121924)
     470880.59   3751877.86   2.44689 (13121924)   470874.85
       3751848.14   2.50207m (13010324)
     470871.72   3751810.58   2.62482m (13010324)   470871.20
       3751779.29   2.51153m (13010324)
     470872.25   3751740.70   2.32774m (13010324)   470876.42
       3751710.45   2.26317m (13010324)
     470884.76   3751671.85   2.32651m (13010324)   470900.41
       3751616.57   2.53375m (13010324)
     470911.88   3751582.67   2.56444m (13010324)   470919.71
       3751556.07   2.50771m (13010324)
     470931.18   3751524.25   2.46981m (13010324)   470940.05
       3751496.61   2.46244m (13010324)
     470951.52   3751461.14   2.43296m (13010324)   470961.95
       3751424.64   2.30215m (13010324)
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                   PAGE 15
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                         ** CONC OF PM_10   IN
                         MICROGRAMS/M**3   **

                                        DATE

ALL   HIGH   1ST HIGH VALUE IS   2.62482m ON 13010324: AT (470871.72,   3751810.58,
517.08,   517.08,   2.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:33:05

                    PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL   URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

     ******** FATAL ERROR MESSAGES ********
               ***   NONE   ***

     ********   WARNING MESSAGES   ********
 ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
 ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

     ****
     *** AERMOD Finishes Successfully ***
     ****

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/2/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\LSTs\14064 Ops PM25 Mit\14064
Ops PM25 Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME 24
   URBANOPT 2189641 Riverside_County
   POLLUTID PM_2.5
   FLAGPOLE 2.00
   RUNORNOT RUN
   ERRORFIL "14064 Ops PM25 Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473   3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212   3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136   3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606   3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736   3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660   3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690   3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898   3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181   3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636   3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712   3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581   3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617   3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380   3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889   3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606   3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530   3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661   3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898   3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105   3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181   3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465   3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541   3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410   3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435   3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117   3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248   3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172   3751619.077      534.860
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   LOCATION VOL29         VOLUME      471577.888  3751616.698      529.000
   LOCATION VOL30         VOLUME      471724.580  3751620.663      533.750
   LOCATION VOL31         VOLUME      471941.049  3751865.677      534.600
   LOCATION VOL32         VOLUME      471795.151  3751684.890      537.260
   LOCATION VOL33         VOLUME      471577.888  3751434.325      531.060
   LOCATION VOL34         VOLUME      471389.965  3751431.946      537.260
   LOCATION VOL35         VOLUME      471202.041  3751467.628      526.830
   LOCATION VOL36         VOLUME      471065.657  3751504.895      521.960
   LOCATION VOL37         VOLUME      471656.388  3751514.411      529.480
   LOCATION VOL38         VOLUME      471522.384  3751324.108      529.000
   LOCATION VOL39         VOLUME      471332.874  3751322.522      529.530
   LOCATION VOL40         VOLUME      471282.920  3751321.729      528.170
   LOCATION VOL41         VOLUME      471233.758  3751388.335      528.470
   LOCATION VOL48         VOLUME      471084.506  3752407.221      506.810
** Source Parameters **
   SRCPARAM VOL1       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL2       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL3       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL4       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL5       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL6       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL7       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL8       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL9       0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL10      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL11      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL12      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL13      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL14      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL15      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL16      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL17      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL18      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL19      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL20      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL21      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL22      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL23      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL24      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL25      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL26      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL27      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL28      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL29      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL30      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL31      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL32      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL33      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL34      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL35      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL36      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL37      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL38      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL39      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL40      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL41      0.0021545638       5.000      43.702      1.400
   SRCPARAM VOL48      0.0021545638       5.000      43.702      1.400
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
```

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RE STARTING
    INCLUDED "14064 Ops PM25 Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
    RECTABLE ALLAVE 1ST
    RECTABLE 24 1ST
** Auto-Generated Plotfiles
    PLOTFILE 24 ALL 1ST "14064 OPS PM25 MIT.AD\24H1GALL.PLT" 31
    SUMMFILE "14064 Ops PM25 Mit.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of          0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***



    ********   WARNING MESSAGES   ********
 ME W186     146      MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
 ME W187     146      MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        17:37:12


                    PAGE    1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                       ***    MODEL SETUP OPTIONS SUMMARY     ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
```

```
        * Model Is Setup For Calculation of Average CONCentration Values.
        * NO GAS DEPOSITION Data Provided.
        * NO PARTICLE DEPOSITION Data Provided.
        * Model Uses NO DRY DEPLETION. DDPLETE  =  F
        * Model Uses NO WET DEPLETION. WETDPLT  =  F
        * Stack-tip Downwash.
        * Model Accounts for ELEVated Terrain Effects.
        * Use Calms Processing Routine.
        * Use Missing Data Processing Routine.
        * No Exponential Decay.
        * Model Uses URBAN Dispersion Algorithm for the SBL for   42 Source(s),
          for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
        * Urban Roughness Length of 1.0 Meter Used.
        * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        * CCVR_Sub - Meteorological data includes CCVR substitutions
        * TEMP_Sub - Meteorological data includes TEMP substitutions
        * Model Accepts FLAGPOLE Receptor . Heights.
        * The User Specified a Pollutant Type of: PM_2.5


**Model Calculates  1 Short Term Average(s) of:  24-HR

**This Run Includes:     42 Source(s);       1 Source Group(s); and     258 Receptor(s)


                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     42 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)



**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                  Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                            ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.5 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064 Ops PM25
Mit.err
**File for Summary of Results:   14064 Ops PM25
Mit.sum
```

◫◫ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 11/02/23
*** AERMET - VERSION 16216 ***
*** *** 17:37:12

PAGE 2
*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE CATS. (METERS)	EMISSION RATE EMISSION RATE SCALAR VARY BY (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
VOL1 YES	0	0.21546E-02	471175.5	3752366.4	510.2	5.00	43.70	1.40
VOL2 YES	0	0.21546E-02	471362.2	3752367.6	512.4	5.00	43.70	1.40
VOL3 YES	0	0.21546E-02	471550.1	3752368.4	518.9	5.00	43.70	1.40
VOL4 YES	0	0.21546E-02	471609.6	3752371.6	516.0	5.00	43.70	1.40
VOL5 YES	0	0.21546E-02	471796.7	3752342.2	515.1	5.00	43.70	1.40
VOL6 YES	0	0.21546E-02	471984.7	3752344.6	513.6	5.00	43.70	1.40
VOL7 YES	0	0.21546E-02	472003.7	3752347.0	512.1	5.00	43.70	1.40
VOL8 YES	0	0.21546E-02	472002.9	3752159.1	521.6	5.00	43.70	1.40
VOL9 YES	0	0.21546E-02	471814.2	3752156.7	520.7	5.00	43.70	1.40
VOL10 YES	0	0.21546E-02	471628.6	3752181.3	526.8	5.00	43.70	1.40
VOL11 YES	0	0.21546E-02	471440.7	3752181.3	527.4	5.00	43.70	1.40
VOL12 YES	0	0.21546E-02	471253.6	3752180.5	518.9	5.00	43.70	1.40
VOL13 YES	0	0.21546E-02	471092.6	3752217.7	509.6	5.00	43.70	1.40
VOL14 YES	0	0.21546E-02	471074.4	3752029.0	516.1	5.00	43.70	1.40
VOL15 YES	0	0.21546E-02	471263.9	3751992.5	521.1	5.00	43.70	1.40
VOL16 YES	0	0.21546E-02	471452.6	3751994.1	530.0	5.00	43.70	1.40
VOL17 YES	0	0.21546E-02	471640.5	3751992.5	534.9	5.00	43.70	1.40
VOL18 YES	0	0.21546E-02	471827.7	3751968.0	533.0	5.00	43.70	1.40
VOL19 YES	0	0.21546E-02	472002.9	3751970.3	527.9	5.00	43.70	1.40
VOL20 YES	0	0.21546E-02	471845.1	3751780.0	538.8	5.00	43.70	1.40
VOL21 YES	0	0.21546E-02	471657.2	3751803.8	536.0	5.00	43.70	1.40
VOL22 YES	0	0.21546E-02	471468.5	3751806.2	528.3	5.00	43.70	1.40
VOL23 YES	0	0.21546E-02	471280.5	3751807.0	525.0	5.00	43.70	1.40

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VOL24            0   0.21546E-02  471093.4 3751841.9   515.6    5.00    43.70     1.40
  YES
VOL25            0   0.21546E-02  470978.4 3751841.9   518.1    5.00    43.70     1.40
  YES
VOL26            0   0.21546E-02  471014.1 3751654.8   520.4    5.00    43.70     1.40
  YES
VOL27            0   0.21546E-02  471201.2 3751654.8   525.1    5.00    43.70     1.40
  YES
VOL28            0   0.21546E-02  471389.2 3751619.1   534.9    5.00    43.70     1.40
  YES
VOL29            0   0.21546E-02  471577.9 3751616.7   529.0    5.00    43.70     1.40
  YES
VOL30            0   0.21546E-02  471724.6 3751620.7   533.8    5.00    43.70     1.40
  YES
VOL31            0   0.21546E-02  471941.0 3751865.7   534.6    5.00    43.70     1.40
  YES
VOL32            0   0.21546E-02  471795.2 3751684.9   537.3    5.00    43.70     1.40
  YES
VOL33            0   0.21546E-02  471577.9 3751434.3   531.1    5.00    43.70     1.40
  YES
VOL34            0   0.21546E-02  471390.0 3751431.9   537.3    5.00    43.70     1.40
  YES
VOL35            0   0.21546E-02  471202.0 3751467.6   526.8    5.00    43.70     1.40
  YES
VOL36            0   0.21546E-02  471065.7 3751504.9   522.0    5.00    43.70     1.40
  YES
VOL37            0   0.21546E-02  471656.4 3751514.4   529.5    5.00    43.70     1.40
  YES
VOL38            0   0.21546E-02  471522.4 3751324.1   529.0    5.00    43.70     1.40
  YES
VOL39            0   0.21546E-02  471332.9 3751322.5   529.5    5.00    43.70     1.40
  YES
VOL40            0   0.21546E-02  471282.9 3751321.7   528.2    5.00    43.70     1.40
  YES
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
VOL41	0	0.21546E-02	471233.8	3751388.3	528.5	5.00	43.70	1.40
	YES							
VOL48	0	0.21546E-02	471084.5	3752407.2	506.8	5.00	43.70	1.40
	YES							

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

  SRCGROUP ID                                                 SOURCE IDs
  -----------                                                 ----------


   ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        , VOL6        ,
   VOL7       , VOL8       ,

              VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
              VOL15       , VOL16       ,

              VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
              VOL23       , VOL24       ,

              VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
              VOL31       , VOL32       ,

              VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
              VOL39       , VOL40       ,

              VOL41       , VOL48       ,
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▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         17:37:12

                 PAGE   5
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*
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```
                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP                                        SOURCE IDs
  --------   ---------                                        ----------


             2189641.   VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
             VOL6        , VOL7        ,
   VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , VOL13       , VOL14       ,
             VOL15       , VOL16       ,

             VOL17       , VOL18       , VOL19       , VOL20       , VOL21       , VOL22       ,
             VOL23       , VOL24       ,

             VOL25       , VOL26       , VOL27       , VOL28       , VOL29       , VOL30       ,
             VOL31       , VOL32       ,

             VOL33       , VOL34       , VOL35       , VOL36       , VOL37       , VOL38       ,
             VOL39       , VOL40       ,

             VOL41       , VOL48       ,
```
```
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/02/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         17:37:12

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL   URBAN  ADJ_U*
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```
                        *** DISCRETE CARTESIAN RECEPTORS ***
                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                  (METERS)
```

```
              500.9,        500.9,         2.0);
( 470596.0, 3752143.3,      500.2,         500.2,         2.0);          ( 470577.0, 3752143.5,
   500.0,        500.0,         2.0);
( 470553.6, 3752143.5,      499.7,         499.7,         2.0);          ( 470528.6, 3752142.6,
   498.8,        498.8,         2.0);
( 470508.0, 3752142.8,      497.6,         497.6,         2.0);          ( 470485.6, 3752142.5,
   496.3,        496.3,         2.0);
( 470471.6, 3752131.6,      496.1,         496.1,         2.0);          ( 470471.6, 3752109.2,
   497.3,        497.3,         2.0);
( 470471.3, 3752085.2,      498.1,         498.1,         2.0);          ( 470471.5, 3752037.7,
   499.7,        499.7,         2.0);
( 470471.7, 3752013.0,      500.0,         500.0,         2.0);          ( 470470.9, 3751987.2,
   500.1,        500.1,         2.0);
( 470470.9, 3751965.7,      500.1,         500.1,         2.0);          ( 470470.8, 3751944.4,
   500.1,        500.1,         2.0);
( 470470.6, 3751924.3,      499.6,         499.6,         2.0);          ( 470470.5, 3751905.9,
   499.0,        499.0,         2.0);
( 470470.9, 3751884.1,      499.1,         499.1,         2.0);          ( 470470.6, 3751864.0,
   498.6,        498.6,         2.0);
( 470470.3, 3751844.0,      497.9,         497.9,         2.0);          ( 470470.2, 3751824.5,
   496.6,        496.6,         2.0);
( 470470.3, 3751805.8,      495.7,         499.0,         2.0);          ( 470470.3, 3751788.0,
   495.1,        502.0,         2.0);
( 470470.3, 3751761.2,      497.6,         497.6,         2.0);          ( 470471.0, 3751741.9,
   499.5,        499.5,         2.0);
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                    PAGE   7
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)

```
( 470470.0, 3751722.8,      501.4,         501.4,         2.0);          ( 470470.2, 3751703.4,
   503.3,        503.3,         2.0);
( 470470.2, 3751683.8,      504.9,         504.9,         2.0);          ( 470470.3, 3751664.3,
   506.2,        506.2,         2.0);
( 470470.3, 3751642.4,      507.6,         507.6,         2.0);          ( 470470.5, 3751621.8,
   508.5,        508.5,         2.0);
( 470470.2, 3751599.8,      509.0,         509.0,         2.0);          ( 470470.6, 3751578.8,
   509.1,        509.1,         2.0);
( 470469.6, 3751555.9,      507.6,         507.6,         2.0);          ( 470470.0, 3751512.5,
   504.8,        512.0,         2.0);
( 470468.6, 3751414.6,      501.8,         513.0,         2.0);          ( 470469.8, 3751385.2,
   507.1,        513.0,         2.0);
( 470468.6, 3751358.9,      509.6,         509.6,         2.0);          ( 470462.9, 3751325.6,
   511.9,        511.9,         2.0);
( 470462.0, 3751310.6,      512.6,         512.6,         2.0);          ( 470462.6, 3751296.6,
   512.4,        512.4,         2.0);
( 470462.6, 3751283.3,      512.0,         512.0,         2.0);          ( 470462.6, 3751269.9,
   511.1,        511.1,         2.0);
( 470462.9, 3751254.3,      509.6,         512.0,         2.0);          ( 470462.0, 3751240.7,
   508.9,        508.9,         2.0);
( 470463.2, 3751227.6,      509.4,         509.4,         2.0);          ( 470756.4, 3751290.6,
   507.7,        525.0,         2.0);
( 470797.7, 3751268.3,      507.7,         525.0,         2.0);          ( 470891.2, 3751226.4,
   512.0,        512.0,         2.0);
( 470940.8, 3751191.8,      512.1,         512.1,         2.0);          ( 471000.6, 3750923.6,
   523.8,        523.8,         2.0);
( 471029.3, 3750923.6,      523.7,         523.7,         2.0);          ( 471056.3, 3750923.9,
   524.2,        542.0,         2.0);
( 471077.9, 3750924.4,      524.8,         543.0,         2.0);          ( 471097.6, 3750924.4,
```

```
525.7,       543.0,        2.0);
( 471118.2, 3750925.0,     528.0,       543.0,        2.0);              ( 471139.0, 3750927.4,
529.8,       543.0,        2.0);
( 471160.1, 3750928.8,     530.8,       543.0,        2.0);              ( 471181.1, 3750931.5,
532.3,       543.0,        2.0);
( 471201.7, 3750930.9,     533.3,       543.0,        2.0);              ( 471222.5, 3750931.5,
533.7,       543.0,        2.0);
( 471244.1, 3750931.2,     534.8,       543.0,        2.0);              ( 471264.4, 3750931.7,
535.7,       538.0,        2.0);
( 471284.4, 3750931.7,     536.5,       536.5,        2.0);              ( 471305.8, 3750931.7,
536.5,       536.5,        2.0);
( 471324.7, 3750930.9,     535.8,       535.8,        2.0);              ( 471343.0, 3750930.1,
534.9,       534.9,        2.0);
( 471363.9, 3750929.0,     534.7,       534.7,        2.0);              ( 471382.0, 3750928.8,
534.8,       534.8,        2.0);
( 471400.9, 3750928.2,     535.0,       535.0,        2.0);              ( 471421.1, 3750928.0,
535.4,       535.4,        2.0);
( 471440.6, 3750928.1,     535.6,       535.6,        2.0);              ( 471461.8, 3750927.4,
535.7,       535.7,        2.0);
( 471479.8, 3750927.9,     535.9,       535.9,        2.0);              ( 471499.7, 3750927.6,
536.2,       536.2,        2.0);
( 471519.3, 3750928.8,     536.6,       549.0,        2.0);              ( 471537.0, 3750929.6,
538.0,       549.0,        2.0);
( 471556.8, 3750930.9,     539.6,       549.0,        2.0);              ( 471580.7, 3750934.1,
541.7,       549.0,        2.0);
( 471624.0, 3750940.2,     545.0,       549.0,        2.0);              ( 471795.9, 3750950.1,
548.4,       548.4,        2.0);
( 471796.3, 3750967.9,     547.3,       547.3,        2.0);              ( 471796.7, 3750987.2,
545.3,       547.0,        2.0);
( 471797.5, 3751006.8,     542.7,       549.0,        2.0);              ( 471796.7, 3751025.3,
542.0,       547.0,        2.0);
( 471795.9, 3751046.4,     541.1,       541.1,        2.0);              ( 471796.7, 3751073.0,
540.1,       540.1,        2.0);
( 471797.5, 3751143.8,     537.7,       537.7,        2.0);              ( 471833.0, 3751143.8,
537.0,       537.0,        2.0);
( 471867.4, 3751144.0,     534.9,       534.9,        2.0);              ( 471891.0, 3751144.4,
532.9,       532.9,        2.0);
( 471916.6, 3751144.2,     530.9,       530.9,        2.0);              ( 471939.5, 3751144.2,
529.4,       529.4,        2.0);
( 471963.1, 3751144.4,     525.8,       535.0,        2.0);              ( 471984.2, 3751144.0,
524.4,       533.0,        2.0);
( 471999.0, 3751163.4,     525.3,       536.0,        2.0);              ( 472000.2, 3751199.1,
530.8,       530.8,        2.0);
( 471999.8, 3751230.6,     532.9,       532.9,        2.0);              ( 472000.4, 3751251.5,
534.3,       534.3,        2.0);
( 472000.2, 3751281.1,     536.2,       536.2,        2.0);              ( 472002.0, 3751347.9,
537.0,       537.0,        2.0);
( 472036.9, 3751348.5,     536.6,       536.6,        2.0);              ( 472063.1, 3751349.3,
536.5,       536.5,        2.0);
( 472084.6, 3751348.3,     535.8,       535.8,        2.0);              ( 472104.9, 3751348.7,
534.6,       534.6,        2.0);
( 472127.3, 3751348.5,     533.0,       533.0,        2.0);              ( 472150.8, 3751349.7,
531.4,       531.4,        2.0);
( 472171.5, 3751349.5,     530.3,       530.3,        2.0);              ( 472194.1, 3751349.1,
528.2,       531.0,        2.0);
( 472222.6, 3751348.7,     525.4,       536.0,        2.0);              ( 472247.8, 3751349.5,
523.2,       536.0,        2.0);
( 472269.7, 3751349.1,     520.9,       536.0,        2.0);              ( 472290.4, 3751350.3,
520.7,       535.0,        2.0);
( 472313.6, 3751350.5,     520.9,       532.0,        2.0);              ( 472333.8, 3751351.3,
520.6,       532.0,        2.0);
```

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    512.0,      512.0,       2.0);
  ( 470935.3, 3752029.1,     508.7,      512.0,       2.0);          ( 470922.3, 3751998.9,
    506.1,      511.0,       2.0);
  ( 470910.3, 3751966.5,     508.0,      508.0,       2.0);          ( 470891.5, 3751915.4,
    510.8,      510.8,       2.0);
  ( 470880.6, 3751877.9,     512.3,      512.3,       2.0);          ( 470874.8, 3751848.1,
    513.4,      517.0,       2.0);
  ( 470871.7, 3751810.6,     517.1,      517.1,       2.0);          ( 470871.2, 3751779.3,
    517.1,      517.1,       2.0);
  ( 470872.2, 3751740.7,     515.6,      515.6,       2.0);          ( 470876.4, 3751710.4,
    514.9,      514.9,       2.0);
  ( 470884.8, 3751671.8,     514.8,      514.8,       2.0);          ( 470900.4, 3751616.6,
    516.8,      516.8,       2.0);
  ( 470911.9, 3751582.7,     518.5,      518.5,       2.0);          ( 470919.7, 3751556.1,
    518.3,      518.3,       2.0);
  ( 470931.2, 3751524.2,     516.9,      516.9,       2.0);          ( 470940.0, 3751496.6,
    515.6,      515.6,       2.0);
  ( 470951.5, 3751461.1,     514.4,      514.4,       2.0);          ( 470962.0, 3751424.6,
    513.8,      513.8,       2.0);
```

◩◩ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                    PAGE   9
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                               (1=YES; 0=NO)

       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                              *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                              ***
                                               (METERS/SEC)

                                  1.54,   3.09,   5.14,   8.23,   10.80,

◩◩ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                    PAGE   10
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

```
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.    37.0  0.15  2.40  1.00    2.06
75.   10.1  288.8    2.0


First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0 -99.00  -99.00


F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/02/23
*** AERMET - VERSION  16216 ***
 ***                                                              ***       17:37:12


                    PAGE  11
*** MODELOPTs:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                          *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP:  ALL      ***
                              INCLUDING SOURCE(S):    VOL1        , VOL2         ,
                              VOL3        , VOL4        , VOL5        ,
             VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
             VOL11       , VOL12       , VOL13       ,
             VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
             VOL19       , VOL20       , VOL21       ,
             VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
             VOL27       , VOL28       ,  . . .      ,


                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                    ** CONC OF PM_2.5   IN
                    MICROGRAMS/M**3                              **


   X-COORD (M)  Y-COORD (M)       CONC    (YYMMDDHH)           X-COORD (M)  Y-COORD
     (M)        CONC    (YYMMDDHH)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      472283.74  3752640.98      0.20592  (12121824)           472482.23
      3752398.04       0.21672  (12120224)
      472477.97  3752183.12      0.24576  (12120224)           472148.10
      3752531.53       0.31724  (12121824)
      472052.12  3752531.22      0.39128  (13121924)           471975.52
      3752531.22       0.44447  (13121924)
      471896.06  3752530.90      0.47523  (13121924)           471840.76
      3752529.94       0.48821  (13121924)
      471816.60  3752527.08      0.48955  (13121924)           471736.82
      3752557.91       0.46258  (13121924)
      471696.59  3752558.87      0.46873  (13121924)           471627.29
      3752556.22       0.50103  (13121924)
      471584.60  3752556.76      0.51675  (13121924)           471560.01
      3752556.22       0.51934  (13121924)
      471534.35  3752554.87      0.51616  (13121924)           471514.89
      3752554.87       0.51014  (13121924)
      471486.79  3752555.68      0.50766  (13121924)           471465.72
      3752555.41       0.50523  (13121924)
      471442.21  3752554.98      0.49758  (13121924)           471419.71
      3752552.46       0.49690  (13121924)
      471394.22  3752552.91      0.49772  (13121924)           471363.44
      3752552.46       0.50299  (13121924)
      471332.68  3752553.31      0.50471  (13121924)           471307.62
      3752552.94       0.50542  (13121924)
      471284.05  3752552.70      0.50266  (13121924)           471261.98
      3752552.70       0.50123  (13121924)
      471241.90  3752552.70      0.50158  (13121924)           471223.15
      3752552.86       0.50308  (13121924)
```

```
471205.90   3752552.86        0.50498 (13121924)              471173.21
3752552.37        0.50898 (13121924)
471135.70   3752552.53        0.50710 (13121924)              471093.22
3752551.54        0.49522 (13121924)
471059.37   3752551.70        0.46881 (13121924)              471020.54
3752551.20        0.42622 (13121924)
470981.05   3752563.65        0.36414 (13121924)              470980.39
3752552.20        0.37885 (13121924)
470980.06   3752535.61        0.40293 (13121924)              470979.89
3752517.19        0.43321 (13121924)
470980.06   3752499.76        0.46530 (13121924)              470980.22
3752479.85        0.50455 (13121924)
470980.39   3752459.44        0.54785 (13121924)              470980.22
3752433.22        0.59430 (13121924)
470980.06   3752404.02        0.62723 (13121924)              470927.12
3752402.69        0.45686 (13121924)
470907.87   3752402.69        0.41715 (13121924)              470887.30
3752402.69        0.38170 (13121924)
470869.71   3752402.03        0.35906 (13121924)              470849.63
3752401.86        0.33643 (13121924)
470829.39   3752402.19        0.31639 (13121924)              470811.63
3752402.19        0.30086 (13121924)
470791.55   3752402.53        0.28485 (13121924)              470773.63
3752401.86        0.27207 (13121924)
470749.24   3752402.19        0.25602 (13121924)              470727.72
3752391.74        0.24636 (13121924)
470733.04   3752338.97        0.26305 (13121924)              470733.70
3752320.55        0.26769b (16120624)
470734.20   3752291.01        0.27504b (16120624)             470733.20
3752265.78        0.27955b (16120624)
470732.87   3752218.81        0.28896b (16120624)             470732.54
3752182.14        0.29626b (16120624)
470732.37   3752145.29        0.30432b (16120624)             470692.38
3752144.80        0.27719b (16120624)
470670.14   3752144.46        0.26371b (16120624)             470651.72
3752144.30        0.25362b (16120624)
470633.46   3752144.13        0.24376b (16120624)             470615.54
3752143.97        0.23463b (16120624)
470595.95   3752143.30        0.22531b (16120624)             470577.03
3752143.47        0.21710b (16120624)
470553.63   3752143.47        0.20766b (16120624)             470528.57
3752142.64        0.19791b (16120624)
470507.99   3752142.80        0.19006b (16120624)             470485.59
3752142.47        0.18206b (16120624)
470471.60   3752131.63        0.17967 (12122024)              470471.60
3752109.21        0.18450 (12122024)
470471.32   3752085.22        0.18906 (12122024)              470471.46
3752037.68        0.19802 (12122024)
470471.74   3752013.00        0.20226 (12122024)              470470.89
3751987.18        0.20635m (13010324)
470470.89   3751965.74        0.21037m (13010324)             470470.75
3751944.44        0.21417m (13010324)
```
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                    PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                                VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,

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              VOL14        , VOL15       , VOL16       , VOL17       , VOL18       ,
              VOL19        , VOL20       , VOL21       ,
              VOL22        , VOL23       , VOL24       , VOL25       , VOL26       ,
              VOL27        , VOL28       ,   . . .     ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                            ** CONC OF PM_2.5   IN
                              MICROGRAMS/M**3                                      **


      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)          X-COORD (M)  Y-COORD
      (M)          CONC      (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
      470470.61    3751924.27       0.21723m (13010324)          470470.47
      3751905.93         0.21967m (13010324)
      470470.89    3751884.06       0.22349m (13010324)          470470.61
      3751864.03         0.22609m (13010324)
      470470.33    3751844.00       0.22808m (13010324)          470470.19
      3751824.53         0.22918m (13010324)
      470470.33    3751805.77       0.23059m (13010324)          470470.33
      3751788.00         0.23222  (12010124)
      470470.33    3751761.19       0.23884  (12010124)          470471.03
      3751741.87         0.24375  (12010124)
      470470.05    3751722.82       0.24769  (12010124)          470470.19
      3751703.36         0.25187  (12010124)
      470470.19    3751683.75       0.25521  (12010124)          470470.33
      3751664.28         0.25800  (12010124)
      470470.33    3751642.41       0.26072  (12010124)          470470.47
      3751621.82         0.26246  (12010124)
      470470.19    3751599.81       0.26338  (12010124)          470470.61
      3751578.79         0.26378  (12010124)
      470469.62    3751555.94       0.26188  (12010124)          470470.05
      3751512.49         0.25765  (12010124)
      470468.64    3751414.59       0.24865  (13121524)          470469.76
      3751385.25         0.25414  (13121524)
      470468.65    3751358.95       0.25512  (13121524)          470462.93
      3751325.56         0.25314  (13121524)
      470461.98    3751310.62       0.25230  (13121524)          470462.61
      3751296.63         0.25130  (13121524)
      470462.61    3751283.28       0.24983  (13121524)          470462.61
      3751269.92         0.24789  (13121524)
      470462.93    3751254.35       0.24547  (13121524)          470461.98
      3751240.67         0.24315  (13121524)
      470463.25    3751227.64       0.24224  (13121524)          470756.39
      3751290.59         0.34413  (13121524)
      470797.72    3751268.33       0.35291  (13121524)          470891.19
      3751226.38         0.38156  (13121524)
      470940.78    3751191.82       0.38280  (13122424)          471000.61
      3750923.63         0.25692m (15020724)
      471029.26    3750923.63       0.26268  (15121524)          471056.29
      3750923.90         0.27197  (15121524)
      471077.91    3750924.44       0.27847  (15121524)          471097.64
      3750924.44         0.28235  (15121524)
      471118.18    3750924.98       0.28726  (15121524)          471138.99
      3750927.42         0.29254  (15121524)
      471160.07    3750928.77       0.29861  (12021624)          471181.15
      3750931.47         0.32211m (15020724)
      471201.69    3750930.93       0.33712m (15020724)          471222.50
      3750931.47         0.33782  (15022224)
      471244.13    3750931.20       0.35138  (15022224)          471264.40
      3750931.74         0.36214  (15022224)
      471284.40    3750931.74       0.36919  (15022224)          471305.75
      3750931.74         0.37013  (15022224)
      471324.67    3750930.93       0.36390  (15022224)          471343.05
      3750930.12         0.35434  (15022224)
```

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   471363.86   3750929.04        0.34542  (15022224)              471381.96
   3750928.77       0.33924  (15022224)
   471400.88   3750928.23        0.33273  (15022224)              471421.15
   3750927.96       0.32571  (15022224)
   471440.59   3750928.11        0.31801  (15022224)              471461.83
   3750927.45       0.30935  (15022224)
   471479.76   3750927.95        0.30402  (15022224)              471499.68
   3750927.62       0.29884  (15022224)
   471519.26   3750928.78        0.29576  (15022224)              471537.02
   3750929.61       0.30416  (15022224)
   471556.77   3750930.94        0.30932  (15022224)              471580.68
   3750934.09       0.32105  (15022224)
   471624.00   3750940.23        0.32079  (15022224)              471795.90
   3750950.11       0.28534  (13111624)
   471796.29   3750967.88        0.29477  (13111624)              471796.69
   3750987.22       0.30999b (16120624)
   471797.47   3751006.75        0.33217b (16120624)              471796.69
   3751025.30       0.35144b (16120624)
   471795.90   3751046.40        0.37645b (16120624)              471796.69
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   471797.47   3751143.85        0.49327b (16120624)              471833.01
   3751143.85       0.47894b (16120624)
   471867.38   3751144.05        0.45319b (16120624)              471891.02
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
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  ***   ***   17:37:12

                PAGE 13
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

```
                         *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP:   ALL      ***
                              INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                               VOL3        , VOL4        , VOL5        ,
                 VOL6       , VOL7       , VOL8       , VOL9       , VOL10       ,
                 VOL11      , VOL12      , VOL13      ,
                 VOL14      , VOL15      , VOL16      , VOL17      , VOL18       ,
                 VOL19      , VOL20      , VOL21      ,
                 VOL22      , VOL23      , VOL24      , VOL25      , VOL26       ,
                 VOL27      , VOL28      , . . .      ,


                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                      ** CONC OF PM_2.5   IN
                      MICROGRAMS/M**3                              **


    X-COORD (M)  Y-COORD (M)      CONC     (YYMMDDHH)          X-COORD (M)  Y-COORD
    (M)      CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
   471999.02   3751163.38        0.33346b (16120624)              472000.19
   3751199.12       0.37102b (16120624)
   471999.80   3751230.56        0.41996b (16120624)              472000.38
   3751251.46       0.44866b (16120624)
   472000.19   3751281.15        0.47613b (16120624)              472001.95
   3751347.94       0.52638b (16120624)
   472036.90   3751348.52        0.48844b (16120624)              472063.07
   3751349.31       0.46914b (16120624)
   472084.56   3751348.33        0.44900b (16120624)              472104.87
   3751348.72       0.42953b (16120624)
```

472127.33	3751348.52	0.40594b (16120624)	472150.76
3751349.70		0.37443b (16120624)	
472171.47	3751349.50	0.35843b (16120624)	472194.12
3751349.11		0.34007b (16120624)	
472222.63	3751348.72	0.31812b (16120624)	472247.83
3751349.50		0.29903b (16120624)	
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3751350.28		0.27453b (16120624)	
472313.64	3751350.48	0.26670b (16120624)	472333.76
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3751351.84		0.21879b (16120624)	
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472601.32	3751352.04	0.17472b (16120624)	472606.79
3751367.27		0.17459b (16120624)	
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3751432.11		0.18049b (16120624)	
472608.94	3751462.58	0.18276b (16120624)	472609.52
3751497.15		0.18581b (16120624)	
472610.70	3751553.78	0.19012b (16120624)	472665.97
3751553.98		0.17527b (16120624)	
472690.38	3751553.59	0.16931b (16120624)	472713.50
3751554.27		0.16444b (16120624)	
472734.64	3751554.04	0.15978b (16120624)	472759.46
3751554.04		0.15446b (16120624)	
472781.75	3751554.50	0.15020 (16051524)	472849.76
3751556.11		0.14241 (16051524)	
472871.82	3751556.11	0.13968 (16051524)	472895.25
3751555.65		0.13674 (16051524)	
472922.60	3751555.88	0.13366 (16051524)	473092.41
3751802.31		0.13161 (12050124)	
473204.80	3751856.81	0.12234 (12050124)	472991.21
3752083.31		0.13729 (12050124)	
473295.12	3752052.49	0.11095 (12050124)	473356.76
3752050.34		0.10630 (12050124)	
473495.10	3751996.58	0.09999 (12050124)	473486.50
3751917.74		0.10217 (12050124)	
473392.60	3752058.22	0.10337 (12050124)	473464.28
3752082.59		0.09750 (12050124)	
473550.29	3752087.61	0.09199 (12050124)	473584.69
3752089.76		0.09013 (12050124)	
472765.59	3752474.09	0.13220 (12120224)	470432.16
3750483.93		0.15937 (12122924)	
469244.06	3754182.82	0.02984 (15030124)	469596.75
3750785.65		0.10534 (13121524)	
470466.55	3750530.27	0.18156 (12122924)	469319.29
3749244.53		0.03957 (13010424)	
469229.64	3749502.19	0.04822 (13010424)	468465.38
3749582.33		0.04341 (12010424)	
471438.37	3750129.76	0.15210 (15022224)	471657.54
3749918.78		0.10872 (15022224)	
471732.91	3749916.52	0.10067 (15022224)	471710.30
3750132.80		0.12503 (15022224)	
471273.89	3750119.77	0.14106 (15022224)	470973.43
3752300.84		0.61386 (13121924)	
470973.95	3752278.41	0.62904 (13121924)	470973.95
3752235.65		0.65355 (13121924)	

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      470971.86   3752174.63        0.65875  (13121924)                    470967.17
        3752139.16        0.66058  (13121924)
      470962.47   3752110.48        0.66454  (13121924)                    470952.57
        3752077.10        0.66720  (13121924)
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Campus\14064 Ops\140 ***   11/02/23
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 ***   ***   17:37:12

                   PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                        *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                             INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                        VOL3   , VOL4   , VOL5   ,
          VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
          VOL11   , VOL12   , VOL13   ,
          VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
          VOL19   , VOL20   , VOL21   ,
          VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
          VOL27   , VOL28   , . . .   ,

                               *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                        ** CONC OF PM_2.5   IN
                        MICROGRAMS/M**3   **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD
     (M)   CONC   (YYMMDDHH)
 -
 - - - - - - - - - - - - - - - - -
      470935.35   3752029.11   0.64211 (13121924)   470922.32
        3751998.86   0.61859 (13121924)
      470910.32   3751966.53   0.62959 (13121924)   470891.54
        3751915.42   0.66197 (13121924)
      470880.59   3751877.86   0.67925 (13121924)   470874.85
        3751848.14   0.69457m (13010324)
      470871.72   3751810.58   0.72864m (13010324)   470871.20
        3751779.29   0.69719m (13010324)
      470872.25   3751740.70   0.64617m (13010324)   470876.42
        3751710.45   0.62825m (13010324)
      470884.76   3751671.85   0.64583m (13010324)   470900.41
        3751616.57   0.70336m (13010324)
      470911.88   3751582.67   0.71188m (13010324)   470919.71
        3751556.07   0.69613m (13010324)
      470931.18   3751524.25   0.68561m (13010324)   470940.05
        3751496.61   0.68357m (13010324)
      470951.52   3751461.14   0.67538m (13010324)   470961.95
        3751424.64   0.63907m (13010324)

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Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                    *** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

                        ** CONC OF PM_2.5   IN
                        MICROGRAMS/M**3   **

                                    DATE

```
ALL      HIGH   1ST HIGH VALUE IS       0.72864m ON 13010324: AT (  470871.72,  3751810.58,
517.08,   517.08,    2.00)  DC



  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/02/23
 *** AERMET - VERSION 16216 ***
 ***   ***   17:37:12

                    PAGE 16
 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

    ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***

    ********   WARNING MESSAGES   ********
 ME W186   146   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used   0.50
 ME W187   146   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

    ****
    *** AERMOD Finishes Successfully ***
    ****

Appendix C-2

Revised HRA Report <u>- REVISED</u>

URBAN CROSSROADS

West Campus Upper Plateau
REVISED HEALTH RISK ASSESSMENT
MARCH JOINT POWER AUTHORITY (MARCH JPA)

PREPARED BY:

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Michael Tirohn
mtirohn@urbanxroads.com

OCTOBER 31, 2023

14064-17 HRA Report

TABLE OF CONTENTS

APPENDICES

LIST OF EXHIBITS

LIST OF TABLES

URBAN
CROSSROADS

LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MEISC	Maximally Exposed Individual School Child
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM_{10}	Particulate Matter 10 microns in diameter or less
Project	West Campus Upper Plateau
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
TRU	Transport Refrigeration Unit
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

URBAN
CROSSROADS

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EXECUTIVE SUMMARY

This report revises and replaces the West Campus Upper Plateau Mobile Source Health Risk Assessment dated December 15, 2022. The West Campus Upper Plateau Project (Project) has converted several Project Design Features to Mitigation Measures and expanded the Mitigation Measures proposed to address air quality impacts. This report also includes analysis of emergency generators and clarification of construction activities. This report is not presented with strikeout/double-underline given the extent of revisions, particularly in the tables.

This report evaluates the potential stationary and mobile-source emissions health risk impacts associated with the development of the proposed Project. More specifically, potential health risk impacts that could result from exposure to Toxic Air Contaminants (TACs), in this case, diesel particulate matter (DPM) generated by heavy-duty diesel trucks accessing the site and the use of emergency generators. This section summarizes the significance criteria and Project health risks.

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on California Air Resources Board (CARB) and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning Toxic Air Contaminant (TAC) emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1, ES-2, and ES-3, presented subsequently.

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R11 which is located approximately 304 feet north of the mixed-use portion of the Project site at an existing residence located at 971 Saltcoats Drive. R11 is placed in the private outdoor living areas (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 4.57 in one million without mitigation, and 0.56 in one million with mitigation, both of which are less than the South Coast Air Quality Management District (SCAQMD) significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01 with and without mitigation, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or

cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

Without mitigation, the residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R3 which is located approximately 299 feet north of the business park portion of the Project site at an existing residence located at 20635 Camino Del Sol. R3 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, without mitigation the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 5.26 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0.

With mitigation, the residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R12 which is located approximately 859 feet south of the business park portion of the Project site at an existing residence located at 20620 Iris Canyon Road. R12 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, with mitigation the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 2.23 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0.

Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario[1]*:*

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R13, which represents the potential worker receptor located approximately 4,113 feet east of an industrial portion of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact without mitigation is 0.89 in one million and 0.79 in one million with mitigation, both of which are less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be ≤0.01 with and without mitigation, which would not exceed the

---

1   SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

The nearest school is the preschool located at Grove Community Church (Location R8), located approximately 794 feet southwest of the Project site. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project without mitigation is calculated to be 0.74 in one million, and 0.32 in one million with mitigation, both of which are less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be ≤0.01 with and without mitigation, which would not exceed the applicable significance threshold of 1.0.

The next nearest school is Benjamin Franklin Elementary School, which is located approximately 2,320 feet southwest of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than ¼ mile from the air pollution source, there would be no significant impacts that would occur to any other schools in the vicinity of the Project.

As such, the Project will not cause a significant human health or cancer risk to nearby school children.

Proposed Park:

Although not required under CEQA, for informational purposes, the analysis also considered the potential risk that may occur at the proposed Park that is a part of the Project and would be located to the west of the mixed-use portion of the Project. The analysis assumed a conservative scenario in which exposure occurs at the park daily over a period of 9 years for 12 hours per day. The maximum potential cancer risk attributed to operation of the proposed Project was estimated to be 1.48 without mitigation and 0.62 with mitigation, both of which are less than the SCAQMD's threshold of 10 in one million[2]. Non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0. As such, operation of the proposed Project would not result in a significant impact for users of the proposed Park.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential increased cancer risk due to exposure to Project construction-source and operational-source DPM emissions is Location R11 without mitigation and Location R12 with mitigation. At Location R11, without mitigation the maximum incremental cancer risk attributable to Project construction and operational DPM source emissions is estimated at 4.36 in one million, while at Location R12, with mitigation the maximum incremental

---

[2] Assuming an extremely conservative exposure duration of 30 years and 24 hours per day (as is used for residents), the resulting risk would be 7.30 in one million without mitigation and 3.05 in one million with mitigation.

cancer risk is estimated at 1.33 in one million, both of which are less than the threshold of 10 in one million. At both locations, with and without mitigation, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

It should be noted that the combined construction and operational risk is lower than the operational risk due to the assumption the conservative use of exposure parameters for the 0 to 2 age group during construction activities and the use of exposure parameters for the 2 to 16 and 16 to 30 age groups during operation.

TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS

Scenario	Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
Without Mitigation	4.35 Year Exposure	Maximum Exposed Sensitive Receptor (Location R11)	4.57	10	NO
With Mitigation	4.35 Year Exposure	Maximum Exposed Sensitive Receptor (Location R11)	0.56	10	NO
Scenario	**Time Period**	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Without Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R11)	≤0.01	1.0	NO
With Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R11)	≤0.01	1.0	NO

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TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS

Scenario	Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
Without Mitigation	30 Year Exposure	Maximum Exposed Sensitive Receptor (Location R3)	5.26	10	NO
	25 Year Exposure	Maximum Exposed Worker Receptor (Location R13)	0.89	10	NO
	9 Year Exposure	Maximum Exposed Individual School Child (Location R8)	0.74	10	NO
With Mitigation	30 Year Exposure	Maximum Exposed Sensitive Receptor (Location R12)	2.23	10	NO
	25 Year Exposure	Maximum Exposed Worker Receptor (Location R13)	0.79	10	NO
	9 Year Exposure	Maximum Exposed Individual School Child (location R8)	0.32	10	NO
Scenario	Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Without Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R3)	≤0.01	1.0	NO
	Annual Average	Maximum Exposed Worker Receptor (Location R13)	≤0.01	1.0	NO
	Annual Average	Maximum Exposed Individual School Child (Location R8)	≤0.01	1.0	NO
With Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R12)	≤0.01	1.0	NO
	Annual Average	Maximum Exposed Worker Receptor (Location R13)	≤0.01	1.0	NO
	Annual Average	Maximum Exposed Individual School Child (location R8)	≤0.01	1.0	NO

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TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS

Scenario	Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
Without Mitigation	30 Year Exposure	Maximum Exposed Sensitive Receptor (Location R11)	4.36	10	NO
With Mitigation	30 Year Exposure	Maximum Exposed Sensitive Receptor (Location R12)	1.22	10	NO
Scenario	**Time Period**	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Without Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R11)	≤0.01	1.0	NO
With Mitigation	Annual Average	Maximum Exposed Sensitive Receptor (Location R12)	≤0.01	1.0	NO

CUMULATIVE IMPACTS

As discussed in Section 3 of this report, the analysis also considers the Project's contribution to cumulative health risks in the area by evaluating the risk of nine cumulative industrial projects located within 1,000 feet of the Project site or Project truck routes. The total cumulative cancer risk of 9.45 in one million is highly conservative, and the actual risk contributions from each project would be less than this combined value. Despite this conservative approach, the total cumulative cancer risk is well below the EPA's standard cumulative cancer risk threshold of 100 in one million. Therefore, the Project's contribution to the cumulative health risk from toxic air contaminants would not be cumulatively considerable.

PROJECT MITIGATION MEASURES WITH QUANTIFIABLE DPM REDUCTIONS

MM AQ-1

Prior to issuance of each grading permit and building permit, the applicant shall provide evidence that all offroad equipment used during construction shall meet CARB Tier 4 Final emission standards or better.

MM AQ-8

Prior to the issuance of a building permit, the Project applicant shall provide evidence to the March Joint Powers Authority that all TRU loading docks provide electrical hookups and all loading docks are designed to be compatible with SmartWay trucks.

MM AQ-17

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable CARB anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than three (3) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager, South Coast Air Quality Management District and the California Air Resources Board to report violations. Prior to the issuance of an occupancy permit, the March Joint Powers Authority shall conduct a site inspection to ensure that the signs are in place. One six square foot sign providing this information shall be located on the building between every two dock-high doors and the sign shall be posted in highly visible locations at the entrance gates, semi parking areas, and trailer parking locations.

MM AQ-18

Once constructed, through requirements in the lease agreements or purchase and sale agreement, the Project applicant or successor in interest shall ensure that all building occupants shall utilize only electric service yard trucks (hostlers), pallet jacks and forklifts, and other on-site equipment, with necessary electrical charging stations provided. Yard hostlers may be diesel fueled in lieu of electrically powered, provided that the occupant submits a letter identifying that electric hostlers are technically infeasible and provided such yard hostlers are compliant with California Air Resources Board (CARB) Tier 4 Final compliant for off-road vehicles. As an alternative, hydrogen fuel-cell or compressed natural gas (CNG) powered equipment shall also be acceptable.

MM AQ-24

Through requirements in the lease agreements or purchase and sale agreement, upon occupancy, tenants shall not use diesel back-up generators, unless absolutely necessary. Tenant shall provide documentation demonstrating, to March JPA's satisfaction, that no other back-up energy source(s) are available and sufficient for the building's needs. If absolutely necessary, at the time of initial operation, generators shall have Best Available Control Technology (BACT) that meets CARB's Tier 4 emission standards or meets the most stringent in-use standard, whichever has the least emissions. In the event rental back-up generators are required during an emergency, the units shall be located at the project site for only the minimum time required. Tenants shall make every effort to utilize rental emergency backup generators that meet CARB's Tier 4 emission standards or have the least emissions.

These measures are quantified and implemented in the mitigated scenario in this HRA as follows:

- MM AQ-1: Assumed the use of Tier 4 Final construction equipment during construction.
- MM AQ-8: Assumed that TRU operation would not exceed 30 minutes while on site, but not at a loading dock.
- MM AQ-17: Assumed that truck idling while on site and at building loading docks would not exceed three minutes.
- MM AQ-18: Assumed the use of operational on-site cargo handling equipment that meets or exceeds Tier 4 Final emissions standards.

- MM AQ-24: Assumed the use of emergency generators that meet or exceed EPA Tier 4 emissions standards.

1   INTRODUCTION

The South Coast Air Quality Management District (SCAQMD) typically issues a comment letter on the Notice of Preparation of a CEQA Document. Per the SCAQMD's typical comment letter, if a proposed Project is expected to generate/attract diesel trucks, which emit diesel particulate matter (DPM) or other Toxic Air Contaminants (TACs), preparation of a HRA is necessary. This document serves to meet the SCAQMD's request for preparation of a HRA. This HRA has been prepared in accordance with the document <u>Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis</u> (2)[3] and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SCAQMD.   Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (3)*.* In this report the AQMD states (Page D-3):

> *"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less of than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic

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[3] SCAQMD/CARB does not publish guidance specific to emergency generators, but the same exposure quantification assumptions are used as for mobile sources. As noted in Section 2.3.4, release parameters from CAPCOA were used.

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exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

1.1   SITE LOCATION

The Project site is located on either side of Barton Street and Cactus Avenue in the jurisdiction of the March JPA and unincorporated Riverside County, as shown on Exhibit 1-A. Interstate 215 (I-215) is located approximately 2.5 miles east of the Project site via Cactus Avenue, Alessandro Boulevard, and Van Buren Boulevard.

1.2   PROJECT DESCRIPTION

The proposed Project (as shown on Exhibit 1-B) has been analyzed consisting of the following uses:

- Building B – 1,250,000 square feet (SF) of high-cube fulfillment center warehouse use
- Building C – 587,000 SF of high-cube fulfillment center warehouse use
- Industrial Area – 725,561 SF of high-cube fulfillment center warehouse use
- Industrial Area – 500,000 SF of high-cube cold storage warehouse use
- Business Park Area – 1,280,403 SF of business park use
- Mixed Use Area – 160,921 SF of retail use (25%)
- Mixed Use Area – 482,765 SF of business park use (75%)
- 42.20 Acre Active Park (with sports fields)
- 18.08 Acres of Public Park
- 17.72 Acres of Open Space use
- 2.84 Acres of Public Facilities for future sewer lift station and electrical substation
- The proposed Project also includes approximately 445-acre Conservation Area

According to the *West Campus Upper Plateau Traffic Analysis*, the proposed Project is anticipated to generate a total of 35,314 two-way vehicle trips per day including 33,260 two-way passenger vehicle trips and 2,054 two-way truck trips per day (in actual vehicles) (4).

The existing March JPA General Plan land use designation for the site is Business Park, Industrial, and Park/Recreation/Open Space. A preliminary land use plan for the proposed Project is shown on Exhibit 1-B. For the purposes of this analysis, it is assumed that the Project would be developed in two phases with an anticipated Opening Year of 2028.

EXHIBIT 1-A: LOCATION MAP

Sources: Esri, HERE, Garmin, Intermap,
increment P Corp., GEBCO, USGS, FAO, NPS,
NRCAN, GeoBase, IGN, Kadaster NL, Ordnance
Survey, Esri Japan, METI, Esri China (Hong Kong),
(c) OpenStreetMap contributors, and the GIS

EXHIBIT 1-B: SITE PLAN

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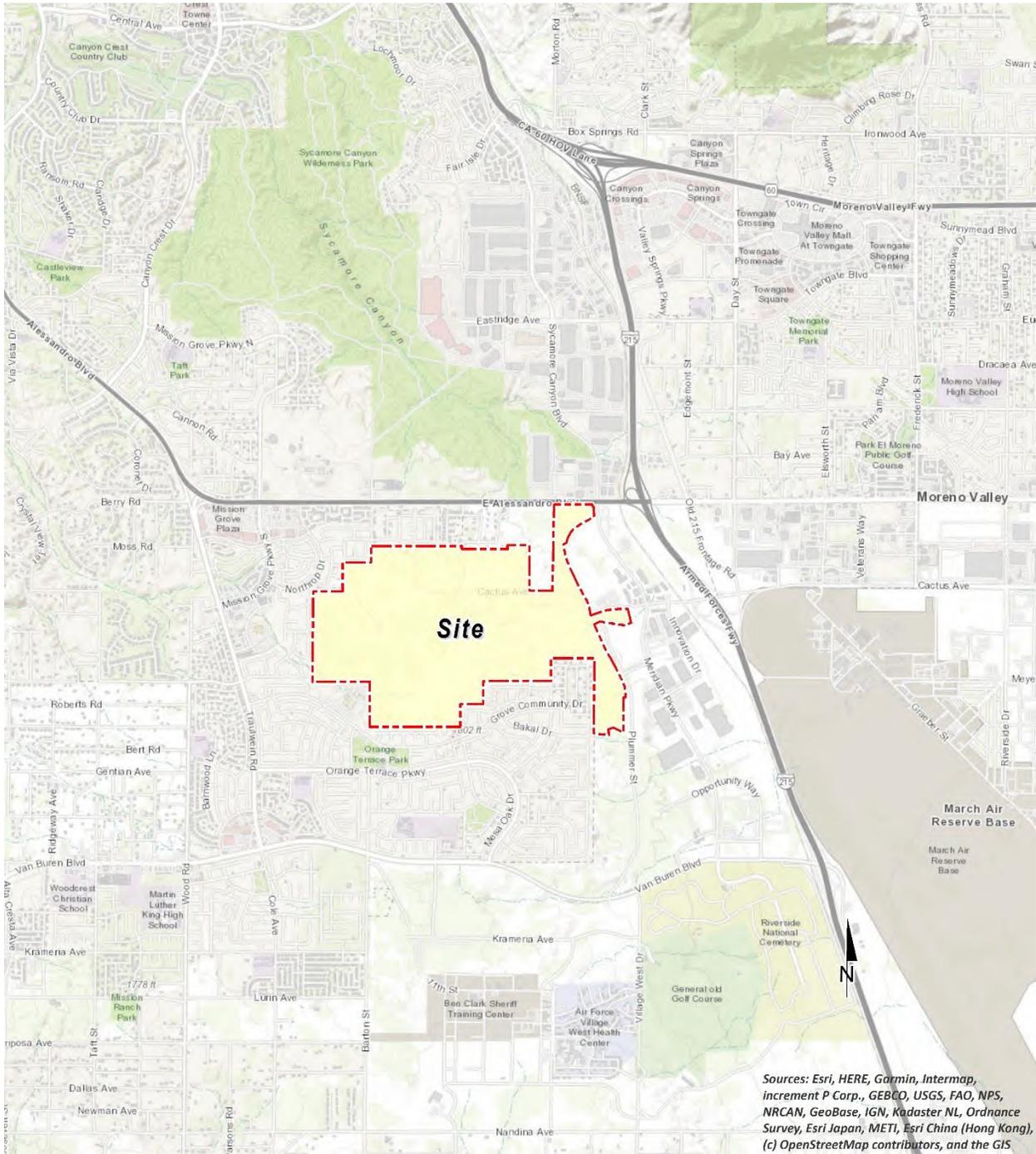
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2   BACKGROUND

2.1   BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on SCAQMD guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The CARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m^3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body.

- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes, and every transport refrigeration unit (TRU) would operate for approximately 2.1 hours under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative.[4] The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2   CONSTRUCTION HEALTH RISK ASSESSMENT

2.2.1   EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *West Campus Upper Plateau Revised Air Quality Impact Analysis* ("technical study") prepared by Urban Crossroads, Inc. (5)

Construction related DPM emissions are expected to occur primarily as a function of heavy-duty construction equipment that would be operating on-site within the Specific Plan Area.

Project construction includes construction of the extensions of Cactus Avenue, Brown Street and Barton Street to connect the Specific Plan Area with the surrounding roadway network. Directly south of the Project site, the Project will install an aboveground 0.5-million-gallon prefabricated, bolted steel reclaimed water tank on a poured concrete slab next to an existing water tank on an already disturbed and graded site along with trenching and paving to install a new reclaimed water line along Grove Community Drive to connect with Barton Street. DPM emissions related to the roadway extensions and tank/water line installation are included in the overall Project DPM emissions. Because this construction would be limited in scope, short-term and intermittent in nature, and cease upon completion, any resulting health impacts to nearby residents would be negligible relative to construction of the proposed Project and would not

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[4] Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

materially affect the determination of the maximum exposed individuals for purposes of this Revised HRA.

As discussed in the technical study, the Project would result in approximately 1,134 total working-days of construction activity. The construction duration by phase is shown on Table 2-1. A detailed summary of construction equipment assumptions by phase is provided at Table 2-2. Without mitigation, Project construction was modeled with standard tier emission construction equipment; with MM AQ-1, Project construction was modeled with Tier 4 Final construction equipment. The CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated on Exhibit 2-A.

TABLE 2-1: CONSTRUCTION DURATION

Phase	Construction Activity	Start Date	End Date	Days
Phase 1	Mass Grading	6/1/2023	3/5/2024	199
	Blasting & Rock Handling	6/1/2023	3/5/2024	199
Phase 2	Remedial Grading	3/6/2024	6/6/2024	67
	Building Construction (Including Off-site)	6/7/2024	10/15/2026	615
	Architectural Coating	8/1/2026	10/5/2027	307
	Paving	8/9/2027	10/5/2027	42

TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase	Construction Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
Phase 1	Mass Grading	Rubber Tired Dozers	8	8	670	0.40
		Scrapers	16	8	570	0.48
		Rubber Tired Dozers	1	8	425	0.40
		Off-Highway Trucks	3	8	500	0.38
		Tractors/Loaders/Backhoes	1	8	425	0.37
		Excavators	4	8	400	0.38
	Blasting & Rock Handling	Rubber Tired Dozers	2	8	670	0.40
		Tractors/Loaders/Backhoes	2	8	400	0.37
		Off-Highway Trucks	3	8	425	0.38
		Rubber Tired Dozers	1	8	600	0.40
		Rubber Tired Dozers	2	8	670	0.40
Phase 2	Remedial Grading	Rubber Tired Dozers	4	8	670	0.40
		Scrapers	8	8	570	0.48

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Phase	Construction Activity	Equipment	Amount	Hours Per Day	Horsepower	Load Factor
		Rubber Tired Dozers	1	8	425	0.40
		Off-Highway Trucks	3	8	500	0.38
		Tractors/Loaders/Backhoes	1	8	425	0.37
		Excavators	2	8	400	0.38
	Building Construction	Cranes	2	8	231	0.29
		Crawler Tractors	3	8	212	0.43
		Forklifts	6	8	89	0.20
		Generator Sets	2	8	84	0.74
		Welders	2	8	46	0.45
	Architectural Coating	Air Compressors	2	8	78	0.48
	Paving	Pavers	4	8	130	0.42
		Paving Equipment	4	8	132	0.36
		Rollers	4	8	80	0.38

EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES
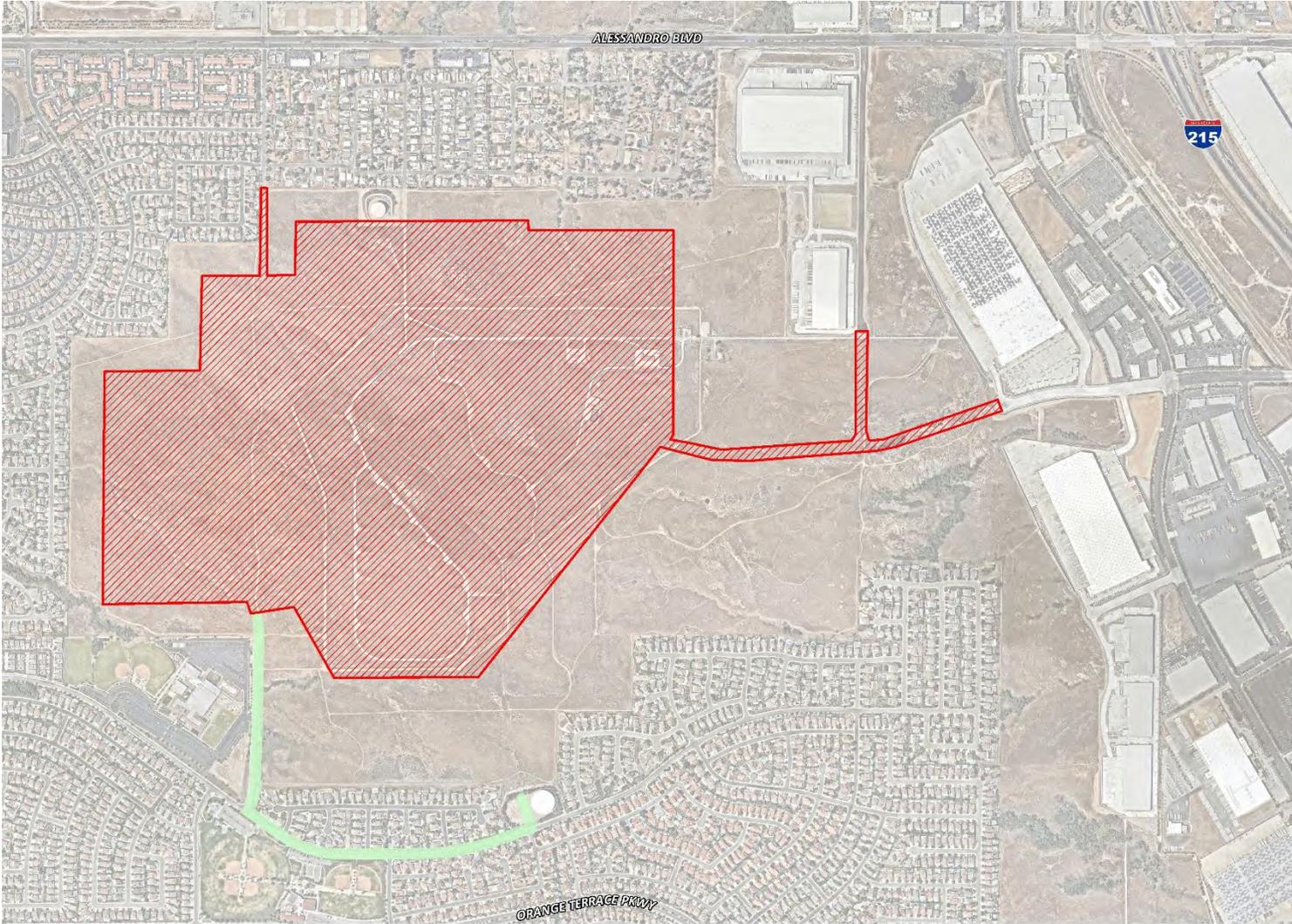
LEGEND:

Limits of On-Site Construction Activity

Limits of Off-Site Construction Activity

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2.3 OPERATIONAL HEALTH RISK ASSESSMENT

2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10μm in diameter (PM_{10}) generated with the 2021 version of the EMission FACtor model (EMFAC) developed by the CARB. TRU emission factors and emission calculations are discussed in Section 2.3.2. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (6). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2028 EMFAC 2021 run was conducted and a static 2028 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2028 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2028. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 59.8% diesel, Medium-Heavy-Duty Trucks are comprised of 92.3% diesel, and Heavy-Heavy-Duty Trucks are comprised of 94.8% diesel. Trucks fueled by diesel are accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (7):

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$$Emissions_{Speed\ A} = EF_{Run\ Exhaust} \times Distance \times \frac{Number\ of\ Trips\ per\ Day}{Seconds\ per\ Day}$$

Where:

$Emissions_{Speed\ A}$	=	Vehicle emissions at a given speed A (g/s)
$EF_{Run\ Exhaust}$	=	EMFAC running exhaust PM_{10} emission factor at speed A (g/vmt)
$Distance$	=	Total distance traveled per trip (miles)

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (7):

$$Emissions_{Idle} = EF_{Idle} \times Number\ of\ Trips \times Idling\ Time \times \frac{60\ minutes\ per\ hour}{seconds\ per\ day}$$

Where:

$Emissions_{Idle}$	=	Vehicle emissions during Idling (g/s)
EF_{Idle}	=	EMFAC idle exhaust PM_{10} emission factor (g/s)
$Number\ of\ Trips$	=	Number of trips per day
$Idling\ Time$	=	Idling time (minutes per trip)

TABLE 2-3: 2028 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.08203 (g/idle-hr)
5	0.01775 (g/mile)
25	0.00805 (g/mile)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.3. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-4 (without mitigation) and Table 2-5 (with mitigation). The modeled emission sources are illustrated on Exhibit 2-B for on-site sources and Exhibit 2-C for off-site sources. The modeling domain is limited to the Project's primary truck

route and includes off-site sources in the study area for more than ¾ mile. This modeling domain is more inclusive and conservative than using only a ¼ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a ¼ mile of the primary source of emissions (1) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

EXHIBIT 2-B: MODELED ON-SITE EMISSION SOURCES
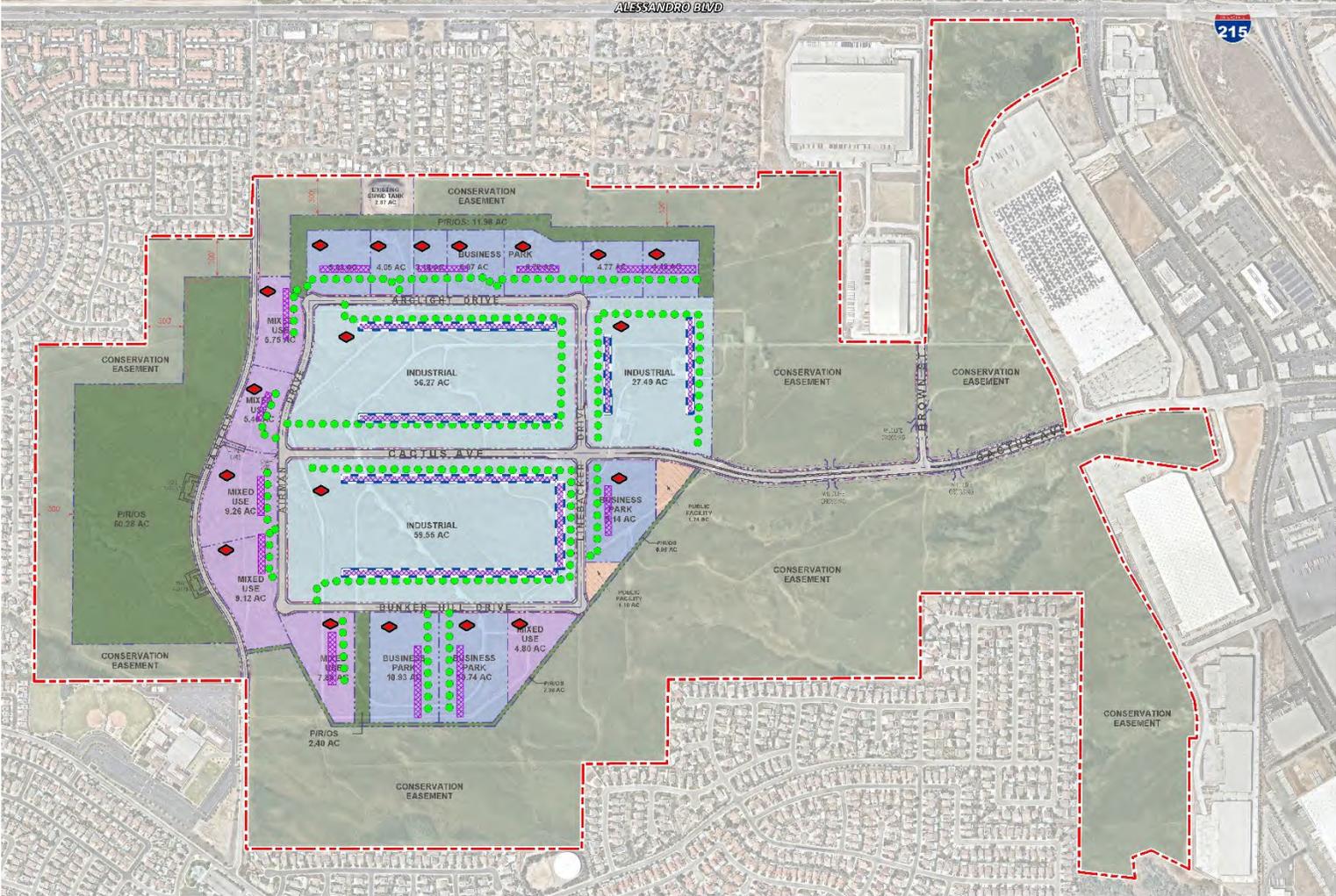
LEGEND:

☐ Site Boundary ▨ Idling and Equipment Activity ●● Truck Movements ◆ Emergency Generator
▨ Cold Storage (TRU) Activity

Note: Exhibit 2-B visually overstates the extent of warehousing allowed in the mixed-use parcels within the Project's Specific Plan so as to evaluate the 'worst-case' impacts at each sensitive receptor.

EXHIBIT 2-C: MODELED OFF-SITE EMISSION SOURCES
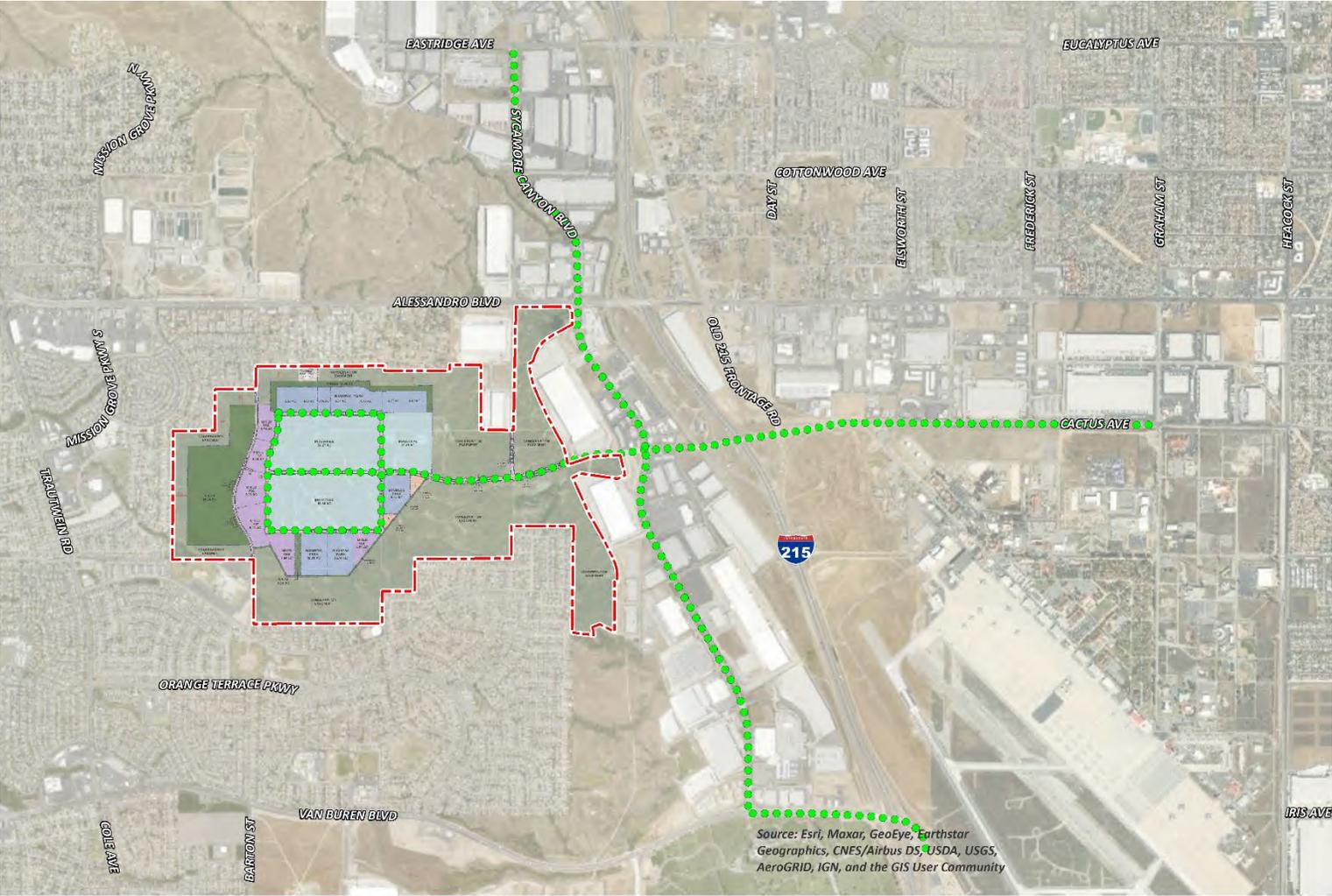
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

LEGEND:

⬚ Site Boundary　　●● Truck Movements

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TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2028 ANALYSIS YEAR) – WITHOUT MITIGATION

Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	TRU Emissions (grams/day)[d]	Modeled Emission Rates (g/second)
On-Site Idling - Bldg A North	104			0.0820	2.14	41.80	5.086E-04
On-Site Idling - Bldg A South	104			0.0820	2.14	41.80	5.086E-04
On-Site Idling - Bldg B North	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg B East	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg B South	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg C West	73			0.0820	1.49	20.16	2.506E-04
On-Site Idling - Bldg C East	73			0.0820	1.49	20.16	2.506E-04
On-Site Idling - Bldg D	31			0.0820	0.64	0.00	7.388E-06
On-Site Idling - Bldg E	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg F	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg G	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg H	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg J	30			0.0820	0.62	0.00	7.203E-06
On-Site Idling - Bldg K	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg MU 98k North	18			0.0820	0.38	0.00	4.390E-06
On-Site Idling - Bldg MU 77k	15			0.0820	0.30	0.00	3.449E-06
On-Site Idling - Bldg MU 131k	25			0.0820	0.51	0.00	5.868E-06
On-Site Idling - Bldg MU 98k South	18			0.0820	0.38	0.00	4.390E-06
On-Site Idling - Bldg MU 110k	21			0.0820	0.43	0.00	4.927E-06
On-Site Travel - Bldg A	418	378.92	0.0178		6.73	14.70	2.480E-04
On-Site Travel - Bldg B	640	604.16	0.0178		10.73	17.87	3.309E-04
On-Site Travel - Bldg C	290	157.68	0.0178		2.80	4.25	8.154E-05
On-Site Travel - Bldg D	62	9.68	0.0178		0.17	0.00	1.989E-06
On-Site Travel - Bldg E	78	11.91	0.0178		0.21	0.00	2.448E-06
On-Site Travel - Bldg F	78	11.82	0.0178		0.21	0.00	2.428E-06
On-Site Travel - Bldg G	78	13.05	0.0178		0.23	0.00	2.681E-06
On-Site Travel - Bldg H	78	12.99	0.0178		0.23	0.00	2.668E-06
On-Site Travel - Bldg J	61	9.68	0.0178		0.17	0.00	1.990E-06
On-Site Travel - Bldg K	78	14.29	0.0178		0.25	0.00	2.936E-06
On-Site Travel - Bldg MU 98k North	37	3.80	0.0178		0.07	0.00	7.811E-07
On-Site Travel - Bldg MU 77k	29	2.65	0.0178		0.05	0.00	5.443E-07
On-Site Travel - Bldg MU 131k	49	4.37	0.0178		0.08	0.00	8.970E-07
On-Site Travel - Bldg MU 98k South	37	3.13	0.0178		0.06	0.00	6.437E-07
On-Site Travel - Bldg MU 110k	42	4.33	0.0178		0.08	0.00	8.895E-07
Off-Site Travel - Cactus Ave 40% Inbound/Outbound	822	366.65	0.0080		2.95	1.53	5.190E-05
Off-Site Travel - Cactus Ave 100% Inbound/Outbound	2054	2160.77	0.0080		17.39	9.04	3.059E-04
Off-Site Travel - Airman Dr/Arclight Dr 25% Inbound/Outbound	514	215.73	0.0080		1.74	0.90	3.054E-05
Off-Site Travel - Linebacker Dr/Arclight Dr 30% N Inbound/Outbound	616	278.59	0.0080		2.24	1.17	3.944E-05
Off-Site Travel - Airman Dr/Bunker Hill Dr 15% Inbound/Outbound	308	142.49	0.0080		1.15	0.60	2.017E-05
Off-Site Travel - Linebacker Dr/Bunker Hill Dr 30% S Inbound/Outbound	616	275.11	0.0080		2.21	1.15	3.894E-05
Off-Site Travel - Sycamore Canyon Blvd 5% Inbound/Outbound	103	184.88	0.0080		1.49	0.77	2.617E-05
Off-Site Travel - Meridian Pkwy 10% Inbound/Outbound	205	468.86	0.0080		3.77	1.96	6.637E-05
Off-Site Travel - Cactus Ave 85% Inbound/Outbound	1746	913.45	0.0080		7.35	3.82	1.293E-04
Off-Site Travel - Cactus Ave 3% Inbound/Outbound	62	60.89	0.0080		0.49	0.25	8.619E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] It is assumed that each TRU operates for 2.1 hours while parked at building loading docks.

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TABLE 2-5: DPM EMISSIONS FROM PROJECT TRUCKS (2028 ANALYSIS YEAR) – WITH MITIGATION

Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	TRU Emissions (grams/day)[d]	Modeled Emission Rates (g/second)
On-Site Idling - Bldg A North	104			0.0820	0.43	10.13	1.222E-04
On-Site Idling - Bldg A South	104			0.0820	0.43	10.13	1.222E-04
On-Site Idling - Bldg B North	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg B East	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg B South	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg C West	73			0.0820	0.30	4.89	6.003E-05
On-Site Idling - Bldg C East	73			0.0820	0.30	4.89	6.003E-05
On-Site Idling - Bldg D	31			0.0820	0.13	0.00	1.478E-06
On-Site Idling - Bldg E	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg F	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg G	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg H	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg J	30			0.0820	0.12	0.00	1.441E-06
On-Site Idling - Bldg K	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg MU 98k North	18			0.0820	0.08	0.00	8.779E-07
On-Site Idling - Bldg MU 77k	15			0.0820	0.06	0.00	6.898E-07
On-Site Idling - Bldg MU 131k	25			0.0820	0.10	0.00	1.174E-06
On-Site Idling - Bldg MU 98k South	18			0.0820	0.08	0.00	8.779E-07
On-Site Idling - Bldg MU 110k	21			0.0820	0.09	0.00	9.855E-07
On-Site Travel - Bldg A	418	378.92	0.0178		6.73	14.70	2.480E-04
On-Site Travel - Bldg B	640	604.16	0.0178		10.73	17.87	3.309E-04
On-Site Travel - Bldg C	290	157.68	0.0178		2.80	4.25	8.154E-05
On-Site Travel - Bldg D	62	9.68	0.0178		0.17	0.00	1.989E-06
On-Site Travel - Bldg E	78	11.91	0.0178		0.21	0.00	2.448E-06
On-Site Travel - Bldg F	78	11.82	0.0178		0.21	0.00	2.428E-06
On-Site Travel - Bldg G	78	13.05	0.0178		0.23	0.00	2.681E-06
On-Site Travel - Bldg H	78	12.99	0.0178		0.23	0.00	2.668E-06
On-Site Travel - Bldg J	61	9.68	0.0178		0.17	0.00	1.990E-06
On-Site Travel - Bldg K	78	14.29	0.0178		0.25	0.00	2.936E-06
On-Site Travel - Bldg MU 98k North	37	3.80	0.0178		0.07	0.00	7.811E-07
On-Site Travel - Bldg MU 77k	29	2.65	0.0178		0.05	0.00	5.443E-07
On-Site Travel - Bldg MU 131k	49	4.37	0.0178		0.08	0.00	8.970E-07
On-Site Travel - Bldg MU 98k South	37	3.13	0.0178		0.06	0.00	6.437E-07
On-Site Travel - Bldg MU 110k	42	4.33	0.0178		0.08	0.00	8.895E-07
Off-Site Travel - Cactus Ave 40% Inbound/Outbound	822	366.65	0.0080		2.95	1.53	5.190E-05
Off-Site Travel - Cactus Ave 100% Inbound/Outbound	2054	2160.77	0.0080		17.39	9.04	3.059E-04
Off-Site Travel - Airman Dr/Arclight Dr 25% Inbound/Outbound	514	215.73	0.0080		1.74	0.90	3.054E-05
Off-Site Travel - Linebacker Dr/Arclight Dr 30% N Inbound/Outbound	616	278.59	0.0080		2.24	1.17	3.944E-05
Off-Site Travel - Airman Dr/Bunker Hill Dr 15% Inbound/Outbound	308	142.49	0.0080		1.15	0.60	2.017E-05
Off-Site Travel - Linebacker Dr/Bunker Hill Dr 30% S Inbound/Outbound	616	275.11	0.0080		2.21	1.15	3.894E-05
Off-Site Travel - Sycamore Canyon Blvd 5% Inbound/Outbound	103	184.88	0.0080		1.49	0.77	2.617E-05
Off-Site Travel - Meridian Pkwy 10% Inbound/Outbound	205	468.86	0.0080		3.77	1.96	6.637E-05
Off-Site Travel - Cactus Ave 85% Inbound/Outbound	1746	913.45	0.0080		7.35	3.82	1.293E-04
Off-Site Travel - Cactus Ave 3% Inbound/Outbound	62	60.89	0.0080		0.49	0.25	8.619E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] It is assumed that each TRU operates for 30 minutes while parked at building loading docks.

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On-site truck idling was estimated to occur as trucks enter and travel through the Project site. Although the Project's diesel-fueled truck and equipment operators will be required by State law to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions be calculated assuming 15 minutes of truck idling (8), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis calculates truck idling at 15 minutes, consistent with SCAQMD's recommendation.

As summarized in the *West Campus Upper Plateau Traffic Analysis* prepared by Urban Crossroads, Inc., the Project is expected to generate a total of approximately 35,314 vehicular trip-ends per day (actual vehicles) which includes 2,054 two-way truck trips per day (4).

2.3.2 TRU EMISSIONS

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage land use are assumed to also have TRUs. Therefore, for modeling purposes 188 trucks (376 two-way truck trips per day) have the potential to include TRUs. Since the ultimate location of the Cold Storage Warehousing is unknown at this time, it was estimated that Cold Storage usage could be allocated between Buildings B and C and the remaining Industrial parcel (proportional to square footage of each building relative to the total amount of cold storage allowed), and the total number of truck trips associated with cold storage usage. The Revised HRA evaluates up to 500,000 square feet of cold storage, however, as a conservative measure, the analysis assumes that the cold storage use could be located in either Building B, Building C, or the remaining Industrial parcel.

TRUs are accounted for during on-site and off-site travel. The TRU calculations are based on CARB's OFFROAD Model version 2021 (OFFROAD2021). OFFROAD2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent with assumptions used in the modeling of project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and converting the daily emission levels into hourly emission rates based on the total emission of each criteria pollutant by equipment type and the average daily hours of operation. Consistent with the methodology presented in Appendix F of CARB's *Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled TRU and TRU Generator Sets, and Facilities Where TRUs Operate* (9), it was estimated that each TRU would spend approximately 3.3 hours per load at the facility, and that the TRU engine would operate 62.5% of the time. Thus, it was estimated that for each two-way truck trip servicing the refrigerated warehouse portion of the Project, the TRU engine would operate for approximately 2.1 hours while on site and parked at the loading docks. With implementation of MM AQ-8, which

requires electric hook-ups at all TRU loading docks, it was estimated that the TRU engine would operate for 30 minutes while on site, but not at a loading dock, in the with mitigation scenario.

2.3.3 ON-SITE CARGO HANDLING EQUIPMENT EMISSIONS

It is common for warehouse buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, it was assumed that a total of 18 pieces[5] of diesel-powered tractors/loaders/backhoes rated at 84 horsepower would operate 4 hours a day[6] for 365 days per year. On-site equipment was modeled as volume sources placed in the truck court area of each building, with a modeled release height of 5 meters and an initial lateral dimension of 1.4 meters. Without mitigation, the modeling assumed average tier equipment, which utilizes the fleet average engine tier for the Project's opening year; with mitigation, the modeling assumed Tier 4 Final equipment. MM AQ-18 requires the Project building occupants to utilize either electric, hydrogen-fuel cell or compressed natural gas equipment. Tier 4 diesel-powered yard hostlers can only be used if electric equipment is technically infeasible. Modeling Tier 4 equipment for the mitigated scenario conservatively understates the emissions reductions under MM AQ-18 to provide the "worst case scenario."

2.3.4 EMERGENCY GENERATORS

The proposed Project was conservatively assumed to include installation of a 300 horsepower diesel-powered emergency generator at each industrial building, for a total of 19 emergency generators. Each emergency generator was estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Emissions associated with the stationary emergency diesel-powered emergency generators were calculated using CalEEMod. Each emergency generator was modeled in AERMOD as point source, and because specific engine data is not known at this time, release parameters from the California Air Pollution Control Officers Association Facility Prioritization Guidelines were utilized (10). Without mitigation, the modeling assumed CalEEMod defaults; with mitigation, the modeling assumed Tier 4 Final generators. MM AQ-24 prohibits the use of diesel-powered back-up generators, unless absolutely necessary, and then only Tier 4 Final or better. Modeling Tier 4 diesel generators for the mitigated scenario conservatively understates the emissions reductions under MM AQ-24 to provide the "worst case scenario."

2.4 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2).[7] SCAQMD recommends using the Environmental Protection

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[5] Based on SCAQMD's April 2021 Second Draft Report for Rule 2305, it is estimated that warehouses operate an average of 3.6 yard trucks per million square feet of warehouse space.

[6] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

[7] SCAQMD/CARB does not publish guidance specific to emergency generators, but the same exposure quantification assumptions are used as for mobile sources. As noted in Section 2.3.4, release parameters from CAPCOA were used.

Agency's (U.S. EPA's) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 11.2.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View incorporates EPA's AERMOD Version 22112 (11).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

SCAQMD-recommended model parameters are presented in Table 2-6 (12). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Riverside Airport monitoring station was used to represent local weather conditions and prevailing winds (13).

TABLE 2-6: AERMOD MODEL PARAMETERS

Dispersion Coefficient (Urban/Rural)	Urban (Population 2,189,641)
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project site's vicinity. The AERMOD dispersion model summary output files for the proposed Project are presented in Appendix 2.3. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace's building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents and workers over a period of 30 or 25 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker and school child) land uses in the vicinity of the Project. These receptors are included in the HRA since residents, workers, and school children may be exposed at these locations over a long-term duration of 30, 25, and 9 years, respectively. This methodology is consistent with SCAQMD and OEHHA recommended guidance.

Any impacts to residents, workers, or school children located further away from the Project site than the modeled residential and non-residential receptors would have a lesser impact than what has already been disclosed in the HRA at the MEIR, MEIW, and MEISC because concentrations dissipate with distance.

Consistent with SCAQMD modeling guidance, all receptors were set to existing elevation height so that only ground-level concentrations are analyzed (14). United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (15).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-7 through 2-10 summarize the Exposure Parameters for Residents, Workers, and school children based on 2015 OEHHA Guidelines. Appendix 2.4 includes the detailed risk calculation.

TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)[a]	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
0 to 2	1,090	10	4.35	1.00	250	8

[a] Construction exposure parameters conservatively apply the parameters for the 0 to 2 age group for the entire duration of construction, which is expected to last for 4.35 years.

TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-9: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

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TABLE 2-10: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) a	Exposure Time (hours/day)
4 to 13	631	3	9	180	12

a To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

2.5 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (2), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.[8]

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day $(mg/kg/day)^{-1}$ to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

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[8] SCAQMD/CARB does not publish guidance specific to emergency generators, but the same exposure quantification assumptions are used as for mobile sources. As noted in Section 2.3.4, release parameters from CAPCOA were used.

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$$DOSE_{AIR} = \left(C_{AIR} \times \frac{BR}{BW} \times A \times EF \right) \times (1 \times 10^{-6})$$

Where:

$DOSE_{AIR}$	=	chronic daily intake (mg/kg/day)
C_{AIR}	=	concentration of contaminant in air (µg/m³)
$\frac{BR}{BW}$	=	daily breathing rate normalized to body weight (L/kg BW-day)
A	=	inhalation absorption factor
EF	=	exposure frequency (days/365 days)
BW	=	body weight (kg)
1×10^{-6}	=	conversion factors (µg to mg, L to m³)

$$RISK_{AIR} = DOSE_{AIR} \times CPF \times ASF \times FAH \times \frac{ED}{AT}$$

Where:

$DOSE_{AIR}$	=	chronic daily intake (mg/kg/day)
CPF	=	cancer potency factor
ASF	=	age sensitivity factor
FAH	=	fraction of time at home
ED	=	number of years within particular age group
AT	=	averaging time

2.6 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 µg/m³ (16).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

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$$HI_{DPM} = \frac{C_{DPM}}{REL_{DPM}}$$

Where:

HI_{DPM}	=	Hazard index (unitless)
C_{DPM}	=	Annual average DPM concentration (µg/m³)
REL_{DPM}	=	REL for DPM (the DPM concentration at which no adverse health effects are anticipated).

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.7 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

A one-quarter mile radius, or 1,320 feet, is commonly utilized for identifying sensitive receptors, such as schools, that may be impacted by a proposed project. This radius is more robust than, and therefore provides a more health protective scenario for evaluation than the 1,000-foot impact radius identified above.

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R11 which is located approximately 304 feet north of the mixed-use portion of the Project site at an existing residence located at 971 Saltcoats Drive. R11 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 4.57 in one million without mitigation, and 0.56 in one million with mitigation, both of which are less than the SCAQMD significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be ≤0.01 with and without mitigation, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

Without mitigation, the residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R3 which is located approximately 299 feet north of the business park portion of the Project site at an existing residence located at 20635 Camino Del Sol. R3 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, without mitigation the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 5.26 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0.

With mitigation, the residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R12 which is located approximately 859 feet south of the business park portion of the Project site at an existing residence located at 20620 Iris Canyon Road. R12 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, with mitigation the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 2.23 in one million, which is less than the SCAQMD's significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0.

Because all other modeled residential receptors are exposed to lesser concentrations and are located at a greater distance from the Project site than the MEIR analyzed herein, and TACs generally dissipates with distance from the source, all other residential receptors in the vicinity of the Project site would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The nearest modeled receptors are illustrated on Exhibit 2-D.

Worker Exposure Scenario[9]:

The worker receptor land use with the greatest potential exposure to Project operational-source DPM emissions is Location R13, which represents the potential worker receptor located approximately 4,113 feet east of an industrial portion of the Project site. At the MEIW, the maximum incremental cancer risk impact without mitigation is 0.89 in one million and 0.79 in one million with mitigation, both of which are less than the SCAQMD's threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be ≤0.01 with and without mitigation, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW

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9 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The nearest modeled receptors are illustrated on Exhibit 2-D.

School Child Exposure Scenario:

The nearest school is the preschool located at Grove Community Church (Location R8), located approximately 794 feet southwest of the Project site. At the MEISC, the maximum incremental cancer risk impact attributable to the Project without mitigation is calculated to be 0.74 in one million, and 0.32 in one million with mitigation, both of which are less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be ≤0.01 with and without mitigation, which would not exceed the applicable significance threshold of 1.0.

The next nearest school is Benjamin Franklin Elementary School, which is located approximately 2,320 feet southwest of the Project site. Because there is no reasonable potential that TAC emissions would cause significant health impacts at distances of more than ¼ mile from the air pollution source, there would be no significant impacts that would occur to any other schools in the vicinity of the Project.

As such, the Project will not cause a significant human health or cancer risk to nearby school children.

Proposed Park:

Although not required under CEQA, for informational purposes, the analysis also considered the potential risk that may occur at the proposed Park that is a part of the proposed Project and would be located to the west of the mixed-use portion of the Project. The analysis assumed a conservative scenario in which exposure occurs at the park daily over a period of 9 years for 12 hours per day. The maximum potential cancer risk attributed to operation of the proposed Project was estimated to be 1.48 without mitigation and 0.62 with mitigation, both of which are less than the SCAQMD's threshold of 10 in one million[10]. Non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable significance threshold of 1.0. As such, operation of the proposed Project would not result in a significant impact for users of the proposed Park.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential increased cancer risk due to exposure to Project construction-source and operational-source DPM emissions is Location R11 without mitigation and Location R12 with mitigation. At Location R11, without mitigation the maximum incremental cancer risk attributable to Project construction and operational DPM source emissions is estimated at 4.36 in one million, while at Location R12, with mitigation the maximum incremental cancer risk is estimated at 1.22 in one million, both of which are less than the threshold of 10 in one million. At both locations, with and without mitigation, non-cancer risks were estimated to be ≤0.01, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project

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[10] Assuming an extremely conservative exposure duration of 30 years and 24 hours per day (as is used for residents), the resulting risk would be 7.30 in one million without mitigation and 3.05 in one million with mitigation.

construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The nearest modeled receptors are illustrated on Exhibit 2-D.

It should be noted that the combined construction and operational risk is lower than the operational risk due to the assumption the conservative use of exposure parameters for the 0 to 2 age group during construction activities and the use of exposure parameters for the 2 to 16 and 16 to 30 age groups during operation.

It should be noted that the receptors presented in Exhibit 2-D do not represent all modeled receptors.

EXHIBIT 2-D: RECEPTOR LOCATIONS
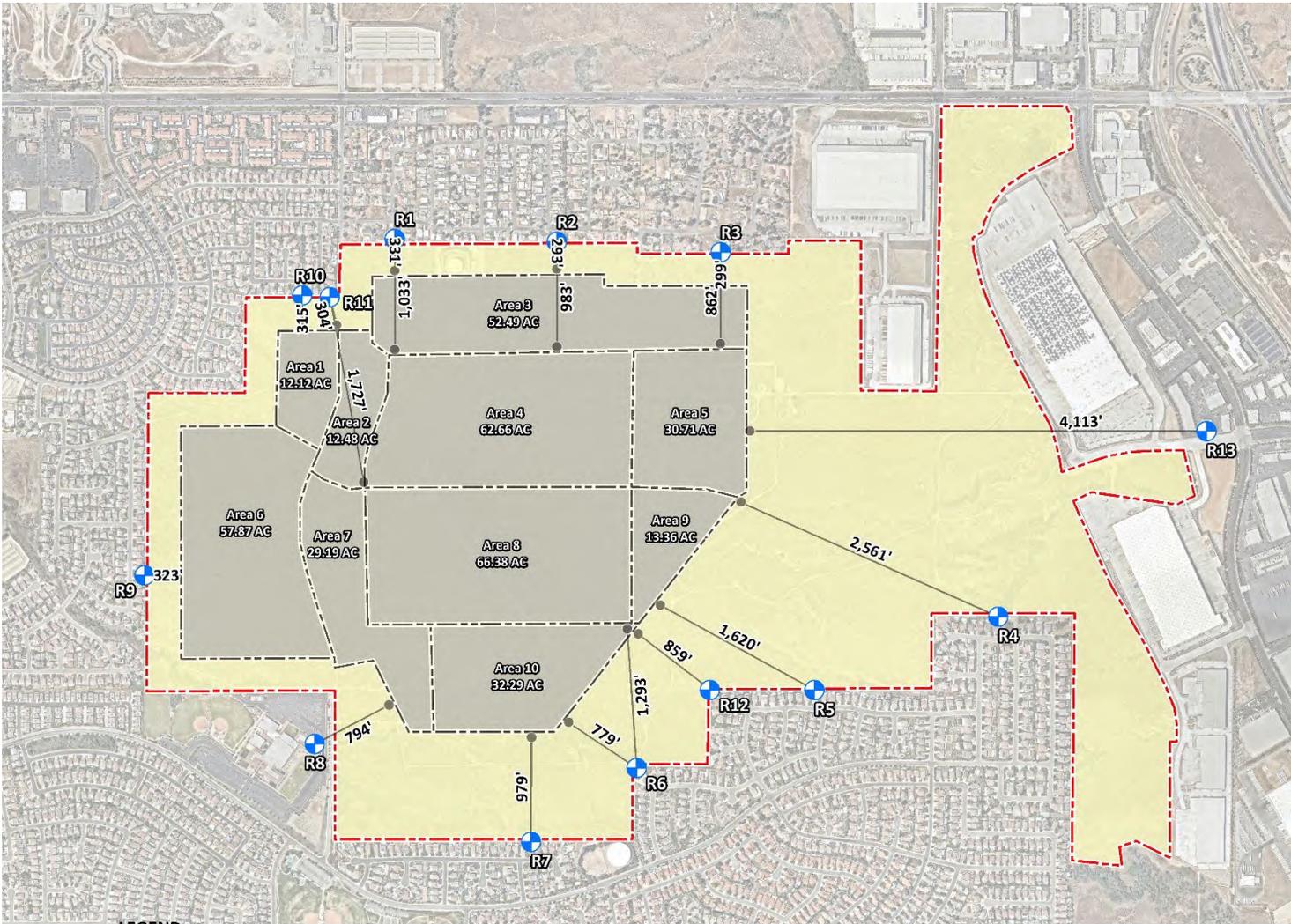
LEGEND:

N

Site Boundary

Construction Area

Receptor Locations

Distance from receptor to Project site boundary (in feet)

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3   CUMULATIVE HEALTH RISKS

3.1   BACKGROUND

The purpose of this section is to provide additional background and analysis of the potential cumulative health risk impacts resulting from any existing and proposed warehouse uses in the vicinity of the proposed Project.

3.2   HEALTH RISK FROM CUMULATIVE CRITERIA POLLUTANTS

SCAQMD and the San Joaquin Valley Unified Air Pollution Control District (SJVAPCD) filed Amicus Curiae Briefs (amicus briefs) in *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502 (F*riant Ranch*) (17) (18). In both amicus briefs, SCAQMD and SJVAPCD provided technical explanations as to why it may not be feasible or reliable for a project to relate the expected adverse air quality impacts to likely health consequences.

As summarized below, for the reasons set forth in the SCAQMD and SJVAPCD amicus briefs, the proposed Project's significant cumulative air quality impacts currently cannot feasibly be related to likely health consequences in an accurate or reliable manner. Although methods are being developed to determine health effects from large regional scale projects, the technical demands to feasibly and accurately relate the adverse air quality impacts to likely health consequences are too high for this Project at this time. The technical challenges are listed below, with the SCAQMD and SJVAPCD amicus briefs providing support on the findings for the Project:

- Ozone is not formed at the location of sources/emissions, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for the proposed Project at this time. "For the so-called criteria pollutants, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NOx) and volatile organic compounds (VOC) in the presence of sunlight… It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources." [SCAQMD brief, p.11]

- The quantity of precursor emissions is not proportional to local ozone and secondary PM concentration, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for the proposed Project at this time. "Ground level ozone (smog) is not directly emitted into the air, but is formed when precursor pollutants such as oxides of nitrogen (NOx) and volatile organic compounds (VOCs) are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight. Once formed, ozone can be transported long distances by wind. Because of the complexity of ozone formation, a specific tonnage amount of NOx or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." [SJVAPCD brief, p.4]

- "Secondary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SOx) and NOx.

Because of the complexity of secondary PM formation, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area." [SJVAPCD brief, p.5]

• Emissions do not cause health effects – it is the resulting concentration of criteria pollutants, which is influenced by sunlight, complex reactions, and transport, which necessitates the use of complex and more sophisticated modeling that is not reasonably feasible for this Project at this time. "The disconnect between the tonnage of precursor pollutants (NOx, SOx and VOCs) and the concentration of ozone or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting ozone or PM." [SJVAPCD brief, p.5]

• Currently available modeling tools are appropriate for regional evaluations, but not individual projects like the proposed Project. "For instance, the computer models used to simulate and predict an attainment date for the ozone or particulate matter NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NOx, SOx and VOCs) and the atmospheric chemistry and meteorology of the Valley… the models simulate future ozone or PM levels based on predicted changes in precursor emissions Valley wide… The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the Valley attains the NAAQS. Rather, the Air District's modeling and planning strategy is regional in nature and based on the extent to which all of the emission-generating sources in the Valley (current and future) must be controlled in order to reach attainment." [SJVAPCD brief, p.6-7]. "Thus, the CEQA air quality analysis for criteria pollutants is not really a localized, project level impact analysis but one of regional, "cumulative impacts."" [SJVAPCD brief, p.8] "…the currently available modeling tools are equipped to model the impact of all emission sources in the Valley on attainment… Running the photochemical grid model used for predicting ozone attainment with the emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NOx and VOC in the Valley) is not likely to yield valid information given the relative scale involved." [SJVAPCD brief, p.9-10]

• SJVAPCD indicates that it is currently impossible to accurately correlate project level emissions to specific health impacts. "Finally, even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like ozone and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact. The reason is the same: such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level." [SJVAPCD brief, p.10]

• SCAQMD highlights that CARB indicated that a CARB methodology of analysis for $PM_{2.5}$ health impacts is not suited for a project such as this one. "Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of $PM_{2.5}$… SCAQMD used the CARB

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methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). Again, this project involved large amounts of additional $PM_{2.5}$ in the District, up to 2.82 tons/day (5,650 lbs/day of $PM_{2.5}$, or 1029 tons/year… However, the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties." "Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts." [SCAQMD brief, p.14]. Here, the maximum operational emissions of $PM_{2.5}$ are 47.28 lbs/day. This is 0.8% of the ones that were used in the CARB methodology.

- The development of new technical approaches in the future may change the feasibility determination. To date, SCAQMD has not developed or approved a method to predict health impacts from criteria pollutants. "Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths." [SCAQMD brief, p.16]

SCAG addressed the potential health implications of significant emissions that would result from implementation of the Connect SoCal RTP/SCS in the Connect SoCal RTP/SCS EIR.[11]

For the reasons set forth above, it is not currently feasible to relate the Project's air quality impacts to likely health consequences. Both SCAQMD and SJVACPD are responsible for assessing ozone and PM impacts regionally, and the potential health consequences from those on a regional basis. The current evaluation on the limitations and uncertainties of existing tools is consistent with SCAQMD and SJVAPCD findings. Currently available regional modeling tools are not designed to capture changes in pollutant concentrations for this Project that would be meaningful. This is due in part to a relatively course spatial resolution (e.g., greater than 4-kilometer x 4 kilometer) which makes it speculative to discern local project impacts on air quality.

3.3 EXISTING CONDITIONS FOR TOXIC EMISSIONS

There are no state or federal ambient air quality standards applicable to TAC emissions. Preparing a cumulative assessment for TACs is complicated by the fact that site-specific impacts can be far different from average impacts over a larger geographic area. Impacts from TAC emissions are highest closest to sources of TACs, but the sources are often spread over a large area. For example, emissions from diesel engines, the largest source of risk from TACs, are operated on roads, businesses, and construction sites throughout the air basin. Locations where large numbers of TAC sources are concentrated such as freeways, rail yards, and ports may pose a higher level of risk to sensitive receptors near these facilities. Examination of the risk from TACs at national, state, regional, and local levels is useful for providing context, but site-specific evaluation is ultimately necessary to determine existing conditions for development projects.

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[11] The full discussion can be found on page 3.3-61 through -65, available online here: https://scag.ca.gov/sites/main/files/file-attachments/fpeir_connectsocal_complete.pdf?1607981618

3.4   AMBIENT TAC IMPACTS PRESUMED TO BE CUMULATIVELY SIGNIFICANT

SCAQMD has conducted an in-depth periodic analysis of toxic air contaminants and their resulting health risks within the air basin. This study, the *Multiple Air Toxics Exposure Study in the South Coast Air Quality Management District*, shows that cancer risk has decreased by approximately 84% between MATES II (1998) and MATES V (2018) at the nearest monitored location to the Project site (Rubidoux) (19), as shown on Exhibit 3-A.

EXHIBIT 3-A: AIR TOXICS CANCER RISK TRENDS – RUBIDOUX
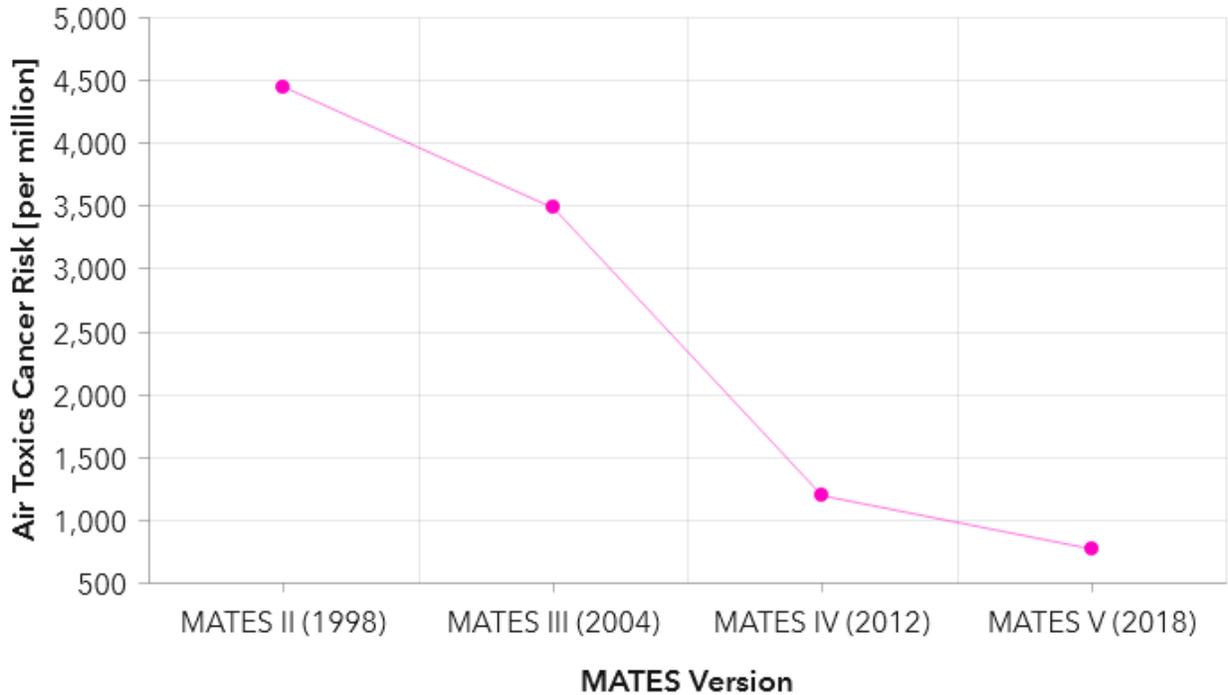
MATES-V is the most comprehensive dataset documenting the ambient air toxic levels and health risks associated with South Coast Air Basin emissions. Therefore, the MATES-V study represents the regional baseline health risk in the South Coast Air Basin. The available scientific data from SCAQMD, which is the expert agency charged with governing air quality and preparing regional risk calculations, shows that although there has been tremendous growth basin-wide, risk levels have declined. The decline in emissions is likely due to existing regulatory requirements that have been implemented over the past 20 years. MATES-V estimates that in the localized area (zip code) encompassing the Project site, the risk is approximately 359 incidents per million population.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (20). In this report SCAQMD states (Page D-3):

> *"…**the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR**. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*

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Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

In many ways, California's Proposition 65, also called the Safe Drinking Water and Toxic Enforcement Act, which became law in 1986 can serve as a benchmark for cumulative risk assessment. Under Proposition 65, the law defines "no significant cancer risk" as a level of exposure that would cause no more than 1 extra case of cancer in 100,000 people or in other words 10 extra cases of cancer in 1,000,000 people over a 70-year lifetime (the same threshold recommended by SCAQMD). It should be noted that diesel exhaust (DE) or diesel particulate matter (DPM) is listed by the Office of Environmental Health Hazard Assessment (OEHHA) as a known carcinogen with respect to Proposition 65.

The U.S. EPA rules generally consider a cancer risk of 100 in one million at the community level to be within the acceptable range, and this level is considered by many lead agencies in California as a cumulative cancer risk threshold.[12]

3.4 JUSTIFICATION OF A GEOGRAPHIC SCOPE IN RISK ASSESSMENT

Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center.

The 1,000-foot evaluation distance is supported by research-based findings concerning TAC emission dispersion rates from roadways and large sources showing that emissions diminish substantially between 500 and 1,000 feet from emission sources.

Lastly, the Waters Bill (AB 3205) (H&SC Section, 42301.6 through 42301.9) addresses sources of hazardous air pollutants near schools and although not directly applicable to this project, this bill further evidences the propriety of considering hazardous emissions sources within a defined 1,000-foot radius. That is, pursuant to the Waters Bill, prior to approving an application for a permit to construct or modify a source which emits hazardous air emissions (i.e. DPM), which source is located within 1,000 feet from the outer boundary of a school site, the air pollution control officer shall prepare a public notice in which the proposed project or modification for which the application for a permit is made is fully described.

For assessing the cumulative impacts of a new source of TAC emissions associated with a project in combination with existing sources and probable future sources, a project radius is necessary.

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[12] Bay Area Air Quality Management District, Revised Draft Options and Justification Report, California Environmental Quality Act Thresholds of Significance. October 2009, p. 67 (noting that "the 100 in a million excess cancer cases is also consistent with the ambient cancer risk in the most pristine portions of the Bay Area based on the District's recent regional modeling analysis."

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Assessment of impacts from existing sources within 1,000 feet (zone of influence) of the new source in combination with risks and hazards from the new source is recommended. Then, once the location of the maximally impacted receptor is identified for the project, cumulative impacts from other sources within the radius of the project (i.e., not the receptor) are assessed at that location. Assessments should sum individual hazards or risks to find the cumulative impact at the location of the maximally impacted receptor from the new source.

More recent studies suggest that in light of emission reductions due to tightening emission standards over the past twenty years, this 1,000-foot siting distance is overly conservative. Modeling performed for the 2021 report *Evaluating Siting Distances for New Sensitive Receptors Near Warehouses*, prepared by the Ramboll Group, demonstrates a significant reduction in DPM emissions and risk between year 2000 emissions (which were utilized by CARB in establishing its recommended siting guidance of 1,000 feet) and 2023 (21). This reduction is attributed to a significant reduction in DPM emission rates from trucks and TRUs resulting from the adoption of increasingly stringent emission standards. This reduction in DPM emission rates has resulted in a corresponding significant reduction in risk as well, despite increasingly conservative regulatory guidance in the preparation of HRAs, particularly OEHHA's adoption of age sensitivity factors in their revised HRA guidance released in 2015.

3.5   CUMULATIVE TAC IMPACTS

As noted above, SCAQMD does not currently have a separate methodology or threshold to evaluate a project's contribution to cumulative cancer risk. Instead, "[p]rojects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable."

As explained in Section 2.7 above, the Project does not exceed the SCAQMD project-specific significance threshold of an excess cancer risk of 10 in one million, and would therefore not have a cumulatively considerable health risk impact.

As shown in Exhibit 3-B below, there are eleven total current or approved cumulative development projects, but only nine industrial/warehouse projects, located within 1,000 feet of the proposed Project site or Project truck routes. Of these projects, MJPA7, R16, R19, R22, and MV2 represent a total of approximately 742,093 square feet comprised of buildings ranging from 36,950 square feet to 235,741 square feet of warehouse/industrial space and would not result in significant health risk impacts due to the relatively small number of truck trips generated.

Based on the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (ITE 150 rate for uses ranging from 6,950 sf to 235,741 sf), 742,093 sf of warehouse could generate approximately 296 daily truck trips. As such, MJPA7, R16, R19, R22, and MV2 could generate approximately 296 additional daily truck trips that could comingle with the Project and other cumulative development. These 296 additional truck trips represent approximately 14% of the Project's total truck trip estimate of 2,054 truck trips. Therefore, it is estimated that MJPA7, R16, R19, R22, and MV2, could result in an approximate 14% of the risk calculated for the Proposed Project which would result in an additional risk of 0.31 per million. Of the remaining projects, the health risk assessments prepared for MJPA1 (Meridian Business Park West Campus),

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MJPA2 (K4 Parcel), MJPA4 (Freeway Business Center), and MJPA5 (Veterans Industrial Park 215) were reviewed. The cumulative cancer risk from these projects and the proposed Project is presented below in Table 3-1.

TABLE 3-1: CUMULATIVE CANCER RISK

Project	Maximum Incremental Cancer Risk (risk per million)
Proposed Project	2.23
MJPA1	4.79
MJPA2	0.50
MJPA4	1.60
MJPA5	0.02
MJPA7, R16, R19, R22, and MV2	0.31
Total Cancer Risk	9.45

The maximum incremental cancer risk shown above for each project represents the risk at the maximally exposed individual receptor for each project, and it should be noted that each of these receptors are in different locations. As such, the total cumulative cancer risk of 9.45 in one million shown above is highly conservative, and the actual risk contributions from each project would be less than this combined value. Despite this conservative approach, the total cumulative cancer risk from the Project and past, present, and reasonably foreseeable future projects that also contribute to the impact is well below the EPA's standard cumulative cancer risk threshold of 100 in one million.

EXHIBIT 3-B: CUMULATIVE DEVELOPMENT PROJECTS LOCATION MAP
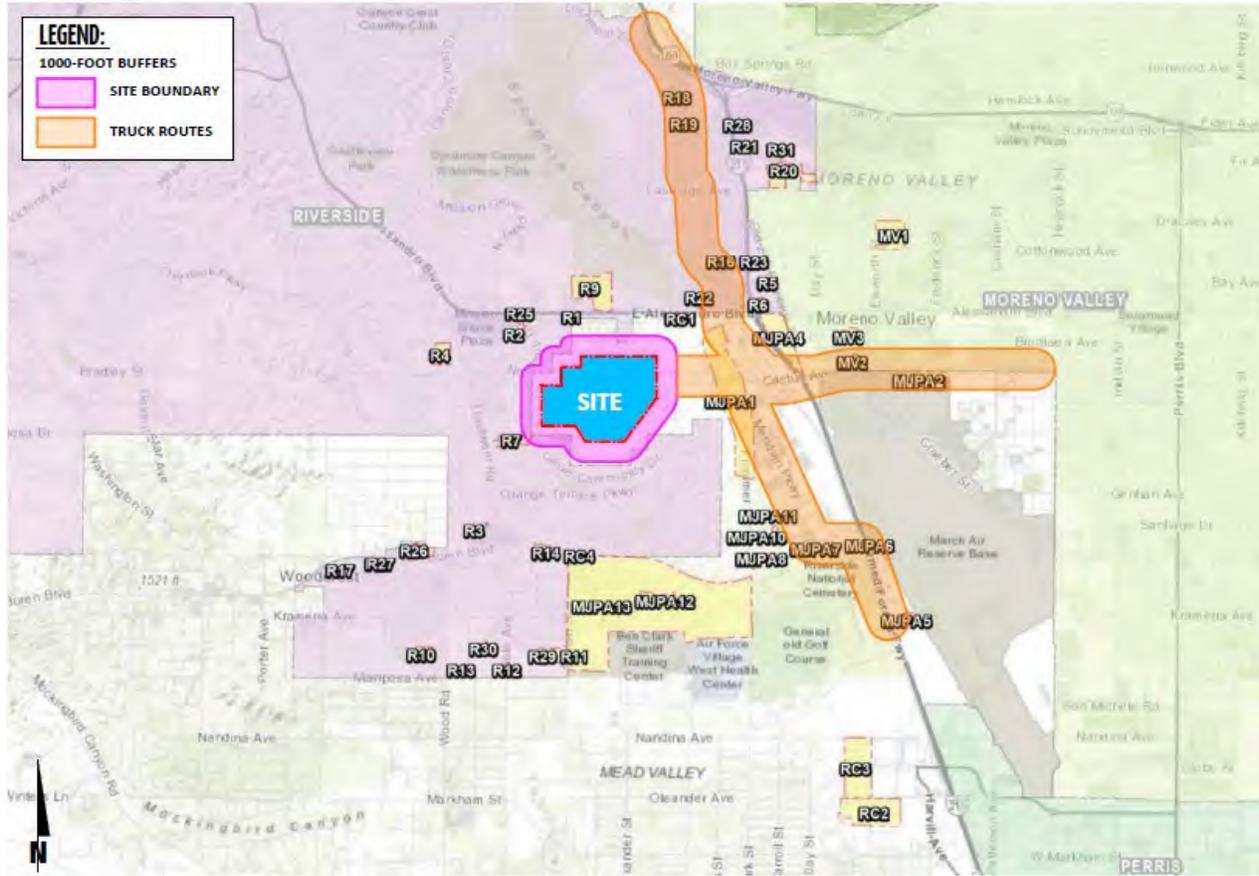
Cumulative Development Land Use Summary

ID	Project Name	Land Use[1]	Quantity Units[2]
March Joint Powers Authority:			
MJPA1	Meridian Business Park (West Campus)	Industrial Park	2,278.852 TSF
MJPA2	K4 Parcel	Warehouse	718.000 TSF
MJPA4	Freeway Business Center	Warehouse	709 TSF
MJPA5	Veteran's Industrial Plaza/VIP 215	Warehouse	2,000.000 TSF
MJPA6	Veteran's Plaza	Commercial Retail	198.000 TSF
MJPA7	MS Van Buren I	Warehouse	176.396 TSF
City of Riverside:			
R16	P12-0507 through P12-0510	Warehouse/Industrial	235.741 TSF
R18	P13-0553, P13-0554, P13-0583, P14-0065	Multi-Family Residential	275 DU
R19	P13-0607, P13-0608, P13-0609, P13-0854	Industrial	171.616 TSF
R22	P14-0600, P14-0601, P14-0602, P15-044	Industrial	121.390 TSF
City of Moreno Valley:			
MV2	Moreno Valley Cactus Center (PEN16-0131)	Warehouse	36.950 TSF
		Fast Food w/ Drive Thru	7.900 TSF
		Gas Station w/ Car Wash	28 VFP

[1] SFDR = Single Family Detached Residential

[2] DU = Dwelling Units; TSF = Thousand Square Feet; SP = Spaces; VFP = Vehicle Fueling Positions

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4   REFERENCES

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5   CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed West Campus Upper Plateau Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Professionals
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
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APPENDIX 2.1:

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APPENDIX 2.2:

EMFAC EMISSIONS SUMMARY

With Mitigation

AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2028

Speed	LHD1	LHD2	MHD	HHD
0	0.360596	0.587221	0.029636	0.01128
5	0.03832	0.058355	0.018419	0.01141
25	0.018162	0.028626	0.005085	0.00558

Speed	Weighted Average Emissions
0	**0.08203**
5	**0.01775**
25	**0.00805**

Truck Emission Rates

Source	Trucks Per Day	VMT[a] (miles/day)	Truck Emission Rate[b] (grams/mile)	Truck Emission Rate[b] (grams/idle-hour)	Daily Truck Emissions[c] (grams/day)	TRU Emissions (grams/day)[d]	Modeled Emission Rates (g/second)
On-Site Idling - Bldg A North	104			0.0820	0.43	10.13	1.222E-04
On-Site Idling - Bldg A South	104			0.0820	0.43	10.13	1.222E-04
On-Site Idling - Bldg B North	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg B East	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg B South	107			0.0820	0.44	7.88	9.627E-05
On-Site Idling - Bldg C West	73			0.0820	0.30	4.89	6.003E-05
On-Site Idling - Bldg C East	73			0.0820	0.30	4.89	6.003E-05
On-Site Idling - Bldg D	31			0.0820	0.13	0.00	1.478E-06
On-Site Idling - Bldg E	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg F	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg G	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg H	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg J	30			0.0820	0.12	0.00	1.441E-06
On-Site Idling - Bldg K	39			0.0820	0.16	0.00	1.847E-06
On-Site Idling - Bldg MU 98k North	18			0.0820	0.08	0.00	8.779E-07
On-Site Idling - Bldg MU 77k	15			0.0820	0.06	0.00	6.898E-07
On-Site Idling - Bldg MU 131k	25			0.0820	0.10	0.00	1.174E-06
On-Site Idling - Bldg MU 98k South	18			0.0820	0.08	0.00	8.779E-07
On-Site Idling - Bldg MU 110k	21			0.0820	0.09	0.00	9.855E-07
On-Site Travel - Bldg A	418	378.92	0.0178		6.73	14.70	2.480E-04
On-Site Travel - Bldg B	640	604.16	0.0178		10.73	17.87	3.309E-04
On-Site Travel - Bldg C	290	157.68	0.0178		2.80	4.25	8.154E-05
On-Site Travel - Bldg D	62	9.68	0.0178		0.17	0.00	1.989E-06
On-Site Travel - Bldg E	78	11.91	0.0178		0.21	0.00	2.448E-06
On-Site Travel - Bldg F	78	11.82	0.0178		0.21	0.00	2.428E-06
On-Site Travel - Bldg G	78	13.05	0.0178		0.23	0.00	2.681E-06
On-Site Travel - Bldg H	78	12.99	0.0178		0.23	0.00	2.668E-06
On-Site Travel - Bldg J	61	9.68	0.0178		0.17	0.00	1.990E-06
On-Site Travel - Bldg K	78	14.29	0.0178		0.25	0.00	2.936E-06
On-Site Travel - Bldg MU 98k North	37	3.80	0.0178		0.07	0.00	7.811E-07
On-Site Travel - Bldg MU 77k	29	2.65	0.0178		0.05	0.00	5.443E-07
On-Site Travel - Bldg MU 131k	49	4.37	0.0178		0.08	0.00	8.970E-07
On-Site Travel - Bldg MU 98k South	37	3.13	0.0178		0.06	0.00	6.437E-07
On-Site Travel - Bldg MU 110k	42	4.33	0.0178		0.08	0.00	8.895E-07
Off-Site Travel - Cactus Ave 40% Inbound/Outbound	822	366.65	0.0080		2.95	1.53	5.190E-05
Off-Site Travel - Cactus Ave 100% Inbound/Outbound	2054	2160.77	0.0080		17.39	9.04	3.059E-04
Off-Site Travel - Airman Dr/Arclight Dr 25% Inbound/Outbound	514	215.73	0.0080		1.74	0.90	3.054E-05
Off-Site Travel - Linebacker Dr/Arclight Dr 30% N Inbound/Outbound	616	278.59	0.0080		2.24	1.17	3.944E-05
Off-Site Travel - Airman Dr/Bunker Hill Dr 15% Inbound/Outbound	308	142.49	0.0080		1.15	0.60	2.017E-05
Off-Site Travel - Linebacker Dr/Bunker Hill Dr 30% S Inbound/Outbound	616	275.11	0.0080		2.21	1.15	3.894E-05
Off-Site Travel - Sycamore Canyon Blvd 5% Inbound/Outbound	103	184.88	0.0080		1.49	0.77	2.617E-05
Off-Site Travel - Meridian Pkwy 10% Inbound/Outbound	205	468.86	0.0080		3.77	1.96	6.637E-05
Off-Site Travel - Cactus Ave 85% Inbound/Outbound	1746	913.45	0.0080		7.35	3.82	1.293E-04
Off-Site Travel - Cactus Ave 3% Inbound/Outbound	62	60.89	0.0080		0.49	0.25	8.619E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] It is assumed that each TRU operates for 30 minutes while parked at building loading docks.

With Mitigation

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2028	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.012039
2028	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.005883
2028	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.011901
2028	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.08367
2028	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.039657
2028	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78735
2028	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	5	PM10	0.078987
2028	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	25	PM10	0.038748
2028	Annual	Riverside (	LHDT2	Dsl			IDLEX		PM10	0.794846
2028	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.019955
2028	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.005509
2028	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.032107

calendar_year	season_month	sub_area	vehicle_class	fuel	temperature	relative_humidity	process	speed_time	pollutant	emission_rate
2028	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.012039
2028	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
Riverside	2028	HHDT	Aggregate	Aggregate	Gasoline	3.98858
Riverside	2028	HHDT	Aggregate	Aggregate	Diesel	16286.5
Riverside	2028	HHDT	Aggregate	Aggregate	Natural Ga	889.839
Riverside	2028	LHDT1	Aggregate	Aggregate	Gasoline	17013.1
Riverside	2028	LHDT1	Aggregate	Aggregate	Diesel	14375.6
Riverside	2028	LHDT2	Aggregate	Aggregate	Gasoline	2353.81
Riverside	2028	LHDT2	Aggregate	Aggregate	Diesel	6657.21
Riverside	2028	MHDT	Aggregate	Aggregate	Gasoline	1167.51
Riverside	2028	MHDT	Aggregate	Aggregate	Diesel	14002.3
Riverside	2028	MHDT	Aggregate	Aggregate	Natural Ga	199.968

HHDT% GAS/NG	0.05203
HHDT% DSL	0.94797
LHDT1% GAS	0.54201
LHDT1% DSL	0.45799
LHDT2% GAS	0.26121
LHDT2% DSL	0.73879
MHDT% GAS	0.07696
MHDT% DSL	0.92304

Operational Off-Road Equipment

0.05	PM10 Emissions (lb/day)
0.0125	PM10 Emissions (lb/hr)
78	No. of Volume Sources
0.00016	PM10 Emissions per Volume Source (lb/hr)

Emergency Generators

    0.28 PM10 Emissions (lb/day)
    0.07 PM10 Emissions (lb/hr)

      19 No. of Point Sources (Generators)

0.003684 PM10 Emissions per Volume Source (lb/hr)

Without Mitigation

AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2028

Speed	LHD1	LHD2	MHD	HHD
0	0.360596	0.587221	0.029636	0.01128
5	0.03832	0.058355	0.018419	0.01141
25	0.018162	0.028626	0.005085	0.00558

Speed	Weighted Average Emissions
0	**0.08203**
5	**0.01775**
25	**0.00805**

Truck Emission Rates							
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	TRU Emissions (grams/day) [d]	Modeled Emission Rates (g/second)
On-Site Idling - Bldg A North	104			0.0820	2.14	41.80	5.086E-04
On-Site Idling - Bldg A South	104			0.0820	2.14	41.80	5.086E-04
On-Site Idling - Bldg B North	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg B East	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg B South	107			0.0820	2.19	32.51	4.016E-04
On-Site Idling - Bldg C West	73			0.0820	1.49	20.16	2.506E-04
On-Site Idling - Bldg C East	73			0.0820	1.49	20.16	2.506E-04
On-Site Idling - Bldg D	31			0.0820	0.64	0.00	7.388E-06
On-Site Idling - Bldg E	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg F	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg G	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg H	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg J	30			0.0820	0.62	0.00	7.203E-06
On-Site Idling - Bldg K	39			0.0820	0.80	0.00	9.235E-06
On-Site Idling - Bldg MU 98k North	18			0.0820	0.38	0.00	4.390E-06
On-Site Idling - Bldg MU 77k	15			0.0820	0.30	0.00	3.449E-06
On-Site Idling - Bldg MU 131k	25			0.0820	0.51	0.00	5.868E-06
On-Site Idling - Bldg MU 98k South	18			0.0820	0.38	0.00	4.390E-06
On-Site Idling - Bldg MU 110k	21			0.0820	0.43	0.00	4.927E-06
On-Site Travel - Bldg A	418	378.92	0.0178		6.73	14.70	2.480E-04
On-Site Travel - Bldg B	640	604.16	0.0178		10.73	17.87	3.309E-04
On-Site Travel - Bldg C	290	157.68	0.0178		2.80	4.25	8.154E-05
On-Site Travel - Bldg D	62	9.68	0.0178		0.17	0.00	1.989E-06
On-Site Travel - Bldg E	78	11.91	0.0178		0.21	0.00	2.448E-06
On-Site Travel - Bldg F	78	11.82	0.0178		0.21	0.00	2.428E-06
On-Site Travel - Bldg G	78	13.05	0.0178		0.23	0.00	2.681E-06
On-Site Travel - Bldg H	78	12.99	0.0178		0.23	0.00	2.668E-06
On-Site Travel - Bldg J	61	9.68	0.0178		0.17	0.00	1.990E-06
On-Site Travel - Bldg K	78	14.29	0.0178		0.25	0.00	2.936E-06
On-Site Travel - Bldg MU 98k North	37	3.80	0.0178		0.07	0.00	7.811E-07
On-Site Travel - Bldg MU 77k	29	2.65	0.0178		0.05	0.00	5.443E-07
On-Site Travel - Bldg MU 131k	49	4.37	0.0178		0.08	0.00	8.970E-07
On-Site Travel - Bldg MU 98k South	37	3.13	0.0178		0.06	0.00	6.437E-07
On-Site Travel - Bldg MU 110k	42	4.33	0.0178		0.08	0.00	8.895E-07
Off-Site Travel - Cactus Ave 40% Inbound/Outbound	822	366.65	0.0080		2.95	1.53	5.190E-05
Off-Site Travel - Cactus Ave 100% Inbound/Outbound	2054	2160.77	0.0080		17.39	9.04	3.059E-04
Off-Site Travel - Airman Dr/Arclight Dr 25% Inbound/Outbound	514	215.73	0.0080		1.74	0.90	3.054E-05
Off-Site Travel - Linebacker Dr/Arclight Dr 30% N Inbound/Outbound	616	278.59	0.0080		2.24	1.17	3.944E-05
Off-Site Travel - Airman Dr/Bunker Hill Dr 15% Inbound/Outbound	308	142.49	0.0080		1.15	0.60	2.017E-05
Off-Site Travel - Linebacker Dr/Bunker Hill Dr 30% S Inbound/Outbound	616	275.11	0.0080		2.21	1.15	3.894E-05
Off-Site Travel - Sycamore Canyon Blvd 5% Inbound/Outbound	103	184.88	0.0080		1.49	0.77	2.617E-05
Off-Site Travel - Meridian Pkwy 10% Inbound/Outbound	205	468.86	0.0080		3.77	1.96	6.637E-05
Off-Site Travel - Cactus Ave 85% Inbound/Outbound	1746	913.45	0.0080		7.35	3.82	1.293E-04
Off-Site Travel - Cactus Ave 3% Inbound/Outbound	62	60.89	0.0080		0.49	0.25	8.619E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] It is assumed that each TRU operates for 2.1 hours while parked at building loading docks.

Without Mitigation

calendar_y	season_m	sub_area	vehicle_class	fuel	temperature	relative_hu	process	speed_tim	pollutant	emission_rate
2028	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.012039
2028	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.005883
2028	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.011901
2028	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.08367
2028	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.039657
2028	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78735
2028	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	5	PM10	0.078987
2028	Annual	Riverside (	LHDT2	Dsl	60	70	RUNEX	25	PM10	0.038748
2028	Annual	Riverside (	LHDT2	Dsl			IDLEX		PM10	0.794846
2028	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.019955
2028	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.005509
2028	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.032107

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
Riverside	2028	HHDT	Aggregate	Aggregate	Gasoline	3.98858
Riverside	2028	HHDT	Aggregate	Aggregate	Diesel	16286.5
Riverside	2028	HHDT	Aggregate	Aggregate	Natural Ga	889.839
Riverside	2028	LHDT1	Aggregate	Aggregate	Gasoline	17013.1
Riverside	2028	LHDT1	Aggregate	Aggregate	Diesel	14375.6
Riverside	2028	LHDT2	Aggregate	Aggregate	Gasoline	2353.81
Riverside	2028	LHDT2	Aggregate	Aggregate	Diesel	6657.21
Riverside	2028	MHDT	Aggregate	Aggregate	Gasoline	1167.51
Riverside	2028	MHDT	Aggregate	Aggregate	Diesel	14002.3
Riverside	2028	MHDT	Aggregate	Aggregate	Natural Ga	199.968

HHDT% GAS/NG	0.05203
HHDT% DSL	0.94797
LHDT1% GAS	0.54201
LHDT1% DSL	0.45799
LHDT2% GAS	0.26121
LHDT2% DSL	0.73879
MHDT% GAS	0.07696
MHDT% DSL	0.92304

Without Mitigation

Operational Off-Road Equipment

0.24 PM10 Emissions (lb/day)
0.06 PM10 Emissions (lb/hr)

78 No. of Volume Sources

0.000769 PM10 Emissions per Volume Source (lb/hr)

Without Mitigation

Emergency Generators

2.75 PM10 Emissions (lb/day)
0.6875 PM10 Emissions (lb/hr)

19 No. of Point Sources (Generators)

0.036184 PM10 Emissions per Volume Source (lb/hr)

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APPENDIX 2.3:

AERMOD MODEL INPUT/OUTPUT

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/30/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064-15 Cons HRA Mit\14064-15
Cons HRA Mit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14064-15 Cons HRA Mit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME      471175.473   3752366.407      510.210
   LOCATION VOL2          VOLUME      471362.212   3752367.600      512.450
   LOCATION VOL3          VOLUME      471550.136   3752368.393      518.920
   LOCATION VOL4          VOLUME      471609.606   3752371.565      516.010
   LOCATION VOL5          VOLUME      471796.736   3752342.227      515.100
   LOCATION VOL6          VOLUME      471984.660   3752344.605      513.590
   LOCATION VOL7          VOLUME      472003.690   3752346.984      512.090
   LOCATION VOL8          VOLUME      472002.898   3752159.060      521.590
   LOCATION VOL9          VOLUME      471814.181   3752156.682      520.730
   LOCATION VOL10         VOLUME      471628.636   3752181.262      526.790
   LOCATION VOL11         VOLUME      471440.712   3752181.262      527.380
   LOCATION VOL12         VOLUME      471253.581   3752180.469      518.870
   LOCATION VOL13         VOLUME      471092.617   3752217.737      509.620
   LOCATION VOL14         VOLUME      471074.380   3752029.020      516.070
   LOCATION VOL15         VOLUME      471263.889   3751992.546      521.100
   LOCATION VOL16         VOLUME      471452.606   3751994.132      529.960
   LOCATION VOL17         VOLUME      471640.530   3751992.546      534.940
   LOCATION VOL18         VOLUME      471827.661   3751967.965      533.000
   LOCATION VOL19         VOLUME      472002.898   3751970.344      527.910
   LOCATION VOL20         VOLUME      471845.105   3751780.041      538.850
   LOCATION VOL21         VOLUME      471657.181   3751803.829      536.000
   LOCATION VOL22         VOLUME      471468.465   3751806.208      528.300
   LOCATION VOL23         VOLUME      471280.541   3751807.001      524.990
   LOCATION VOL24         VOLUME      471093.410   3751841.890      515.600
   LOCATION VOL25         VOLUME      470978.435   3751841.890      518.120
   LOCATION VOL26         VOLUME      471014.117   3751654.759      520.370
   LOCATION VOL27         VOLUME      471201.248   3751654.759      525.140
   LOCATION VOL28         VOLUME      471389.172   3751619.077      534.860
   LOCATION VOL29         VOLUME      471577.888   3751616.698      529.000
```

```
    LOCATION VOL30          VOLUME        471724.580   3751620.663        533.750
    LOCATION VOL31          VOLUME        471941.049   3751865.677        534.600
    LOCATION VOL32          VOLUME        471795.151   3751684.890        537.260
    LOCATION VOL33          VOLUME        471577.888   3751434.325        531.060
    LOCATION VOL34          VOLUME        471389.965   3751431.946        537.260
    LOCATION VOL35          VOLUME        471202.041   3751467.628        526.830
    LOCATION VOL36          VOLUME        471065.657   3751504.895        521.960
    LOCATION VOL37          VOLUME        471656.388   3751514.411        529.480
    LOCATION VOL38          VOLUME        471522.384   3751324.108        529.000
    LOCATION VOL39          VOLUME        471332.874   3751322.522        529.530
    LOCATION VOL40          VOLUME        471282.920   3751321.729        528.170
    LOCATION VOL41          VOLUME        471233.758   3751388.335        528.470
    LOCATION VOL42          VOLUME        472135.642   3751845.064        525.790
    LOCATION VOL43          VOLUME        472323.361   3751843.460        510.520
    LOCATION VOL44          VOLUME        472512.544   3751852.284        501.450
    LOCATION VOL45          VOLUME        472698.022   3751875.469        491.390
    LOCATION VOL46          VOLUME        472880.772   3751928.657        487.900
    LOCATION VOL47          VOLUME        472608.011   3752044.580        498.520
    LOCATION VOL48          VOLUME        471084.506   3752407.221        506.810
    LOCATION VOL49          VOLUME        471071.381   3751309.377        518.980
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0020085773
** Vertical Dimension = 6.99
** SZINIT = 3.25
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** 474283.254, 3752150.156, 471.01, 3.49, 4.00
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    LOCATION L0000004       VOLUME        472115.278 3751859.658 529.22
    LOCATION L0000005       VOLUME        472123.594 3751857.507 528.34
    LOCATION L0000006       VOLUME        472131.911 3751855.357 526.89
    LOCATION L0000007       VOLUME        472140.227 3751853.206 525.32
    LOCATION L0000008       VOLUME        472148.543 3751851.055 523.63
    LOCATION L0000009       VOLUME        472156.860 3751848.904 522.09
    LOCATION L0000010       VOLUME        472165.176 3751846.754 520.42
    LOCATION L0000011       VOLUME        472173.492 3751844.603 519.19
    LOCATION L0000012       VOLUME        472181.843 3751842.635 518.33
    LOCATION L0000013       VOLUME        472190.376 3751841.643 518.20
    LOCATION L0000014       VOLUME        472198.908 3751840.651 518.08
    LOCATION L0000015       VOLUME        472207.441 3751839.659 517.98
    LOCATION L0000016       VOLUME        472215.973 3751838.667 518.12
    LOCATION L0000017       VOLUME        472224.506 3751837.674 518.34
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    LOCATION L0000019       VOLUME        472241.571 3751835.690 518.52
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LOCATION L0000021      VOLUME      472258.673 3751835.211 515.96
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LOCATION L0000023      VOLUME      472275.815 3751836.354 513.63
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LOCATION L0000027      VOLUME      472310.098 3751838.639 511.45
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LOCATION L0000039      VOLUME      472412.907 3751846.106 505.02
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LOCATION L0000066      VOLUME      472643.928 3751866.289 493.37
LOCATION L0000067      VOLUME      472652.471 3751867.193 492.95
LOCATION L0000068      VOLUME      472661.013 3751868.096 492.53
LOCATION L0000069      VOLUME      472669.555 3751869.000 492.26
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LOCATION L0000072      VOLUME      472695.182 3751871.710 491.65
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LOCATION L0000074      VOLUME      472712.267 3751873.517 491.99
LOCATION L0000075      VOLUME      472720.418 3751876.096 492.06
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LOCATION L0000082      VOLUME      472776.822 3751896.933 490.58
LOCATION L0000083      VOLUME      472784.880 3751899.910 490.35
LOCATION L0000084      VOLUME      472792.938 3751902.887 490.35
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LOCATION L0000090      VOLUME      472841.284 3751920.747 488.50
LOCATION L0000091      VOLUME      472849.342 3751923.724 488.29
LOCATION L0000092      VOLUME      472857.400 3751926.700 488.13
LOCATION L0000093      VOLUME      472865.457 3751929.677 488.03
LOCATION L0000094      VOLUME      472873.515 3751932.654 487.98
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LOCATION L0000128      VOLUME      473153.041 3752014.966 481.73
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LOCATION L0000131      VOLUME      473178.466 3752018.850 481.18
LOCATION L0000132      VOLUME      473187.043 3752019.326 481.10
LOCATION L0000133      VOLUME      473195.620 3752019.803 481.03
LOCATION L0000134      VOLUME      473204.197 3752020.279 480.85
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LOCATION L0000136      VOLUME      473221.350 3752021.232 480.28
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LOCATION L0000139      VOLUME      473247.080 3752022.662 480.00
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LOCATION L0000142      VOLUME      473272.811 3752024.091 479.56
LOCATION L0000143      VOLUME      473281.388 3752024.567 479.27
LOCATION L0000144      VOLUME      473289.964 3752025.044 478.99
LOCATION L0000145      VOLUME      473298.541 3752025.520 478.70
LOCATION L0000146      VOLUME      473307.118 3752025.997 478.42
LOCATION L0000147      VOLUME      473315.695 3752026.473 478.13
LOCATION L0000148      VOLUME      473324.271 3752026.950 477.84
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LOCATION L0000151      VOLUME      473350.002 3752028.379 476.99
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LOCATION L0000155      VOLUME      473384.309 3752030.285 476.00
LOCATION L0000156      VOLUME      473392.886 3752030.762 476.00
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LOCATION L0000158      VOLUME      473410.017 3752031.984 475.99
LOCATION L0000159      VOLUME      473418.555 3752032.926 475.77
LOCATION L0000160      VOLUME      473427.093 3752033.868 475.56
LOCATION L0000161      VOLUME      473435.632 3752034.809 475.37
LOCATION L0000162      VOLUME      473444.170 3752035.751 475.26
LOCATION L0000163      VOLUME      473452.708 3752036.693 475.19
LOCATION L0000164      VOLUME      473461.246 3752037.635 475.10
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LOCATION L0000171      VOLUME      473521.014 3752044.227 474.58
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LOCATION L0000175      VOLUME      473555.167 3752047.993 474.04
LOCATION L0000176      VOLUME      473563.705 3752048.935 473.86
LOCATION L0000177      VOLUME      473572.243 3752049.877 473.58
LOCATION L0000178      VOLUME      473580.781 3752050.819 473.30
LOCATION L0000179      VOLUME      473589.320 3752051.760 473.01
LOCATION L0000180      VOLUME      473597.858 3752052.702 472.76
LOCATION L0000181      VOLUME      473606.396 3752053.644 472.50
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LOCATION L0000185      VOLUME      473640.631 3752056.184 472.70
LOCATION L0000186      VOLUME      473649.219 3752056.393 472.99
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LOCATION L0000197      VOLUME      473743.681 3752058.697 472.93
LOCATION L0000198      VOLUME      473752.268 3752058.907 472.92
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LOCATION L0000200      VOLUME      473769.362 3752060.370 472.87
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LOCATION L0000202      VOLUME      473786.395 3752062.611 472.80
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LOCATION L0000205      VOLUME      473811.945 3752065.973 472.69
LOCATION L0000206      VOLUME      473820.461 3752067.094 472.65
LOCATION L0000207      VOLUME      473828.978 3752068.214 472.61
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LOCATION L0000209      VOLUME      473846.011 3752070.456 472.79
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LOCATION L0000212      VOLUME      473871.561 3752073.817 472.77
LOCATION L0000213      VOLUME      473880.078 3752074.938 472.58
LOCATION L0000214      VOLUME      473888.536 3752076.409 472.36
LOCATION L0000215      VOLUME      473896.962 3752078.081 472.21
LOCATION L0000216      VOLUME      473905.388 3752079.754 472.11
LOCATION L0000217      VOLUME      473913.813 3752081.427 472.03
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    LOCATION L0000224      VOLUME     473972.792 3752093.136 470.83
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    LOCATION L0000227      VOLUME     473998.069 3752098.154 470.24
    LOCATION L0000228      VOLUME     474006.494 3752099.827 470.06
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    LOCATION L0000258      VOLUME     474259.980 3752146.136 470.34
    LOCATION L0000259      VOLUME     474268.445 3752147.598 470.60
    LOCATION L0000260      VOLUME     474276.909 3752149.060 470.83
** End of LINE VOLUME Source ID = SLINE1
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    LOCATION VOL51         VOLUME      471067.735  3751114.981     519.450
** Source Parameters **
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    SRCPARAM VOL5          0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL6          0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL7          0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL8          0.0001334318     5.000      43.702      1.400
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    SRCPARAM VOL10         0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL11         0.0001334318     5.000      43.702      1.400
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    SRCPARAM VOL15         0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL16         0.0001334318     5.000      43.702      1.400
    SRCPARAM VOL17         0.0001334318     5.000      43.702      1.400
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    SRCPARAM VOL19         0.0001334318     5.000      43.702      1.400
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     SRCPARAM VOL25        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL26        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL27        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL28        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL29        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL30        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL31        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL32        0.0001334318      5.000     43.702     1.400
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     SRCPARAM VOL36        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL37        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL38        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL39        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL40        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL41        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL42        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL43        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL44        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL45        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL46        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL47        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL48        0.0001334318      5.000     43.702     1.400
     SRCPARAM VOL49        0.0001334318      5.000     43.702     1.400
**  LINE VOLUME Source ID = SLINE1
     SRCPARAM L0000001     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000002     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000003     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000004     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000005     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000006     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000007     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000008     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000009     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000010     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000011     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000012     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000013     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000014     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000015     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000016     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000017     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000018     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000019     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000020     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000021     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000022     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000023     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000024     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000025     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000026     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000027     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000028     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000029     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000030     0.0000007725      3.49      4.00       3.25
     SRCPARAM L0000031     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000032     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000033     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000034     0.000007725       3.49      4.00       3.25
     SRCPARAM L0000035     0.000007725       3.49      4.00       3.25
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SRCPARAM L0000036    0.000007725    3.49    4.00    3.25
SRCPARAM L0000037    0.000007725    3.49    4.00    3.25
SRCPARAM L0000038    0.000007725    3.49    4.00    3.25
SRCPARAM L0000039    0.000007725    3.49    4.00    3.25
SRCPARAM L0000040    0.000007725    3.49    4.00    3.25
SRCPARAM L0000041    0.000007725    3.49    4.00    3.25
SRCPARAM L0000042    0.000007725    3.49    4.00    3.25
SRCPARAM L0000043    0.000007725    3.49    4.00    3.25
SRCPARAM L0000044    0.000007725    3.49    4.00    3.25
SRCPARAM L0000045    0.000007725    3.49    4.00    3.25
SRCPARAM L0000046    0.000007725    3.49    4.00    3.25
SRCPARAM L0000047    0.000007725    3.49    4.00    3.25
SRCPARAM L0000048    0.000007725    3.49    4.00    3.25
SRCPARAM L0000049    0.000007725    3.49    4.00    3.25
SRCPARAM L0000050    0.000007725    3.49    4.00    3.25
SRCPARAM L0000051    0.000007725    3.49    4.00    3.25
SRCPARAM L0000052    0.000007725    3.49    4.00    3.25
SRCPARAM L0000053    0.000007725    3.49    4.00    3.25
SRCPARAM L0000054    0.000007725    3.49    4.00    3.25
SRCPARAM L0000055    0.000007725    3.49    4.00    3.25
SRCPARAM L0000056    0.000007725    3.49    4.00    3.25
SRCPARAM L0000057    0.000007725    3.49    4.00    3.25
SRCPARAM L0000058    0.000007725    3.49    4.00    3.25
SRCPARAM L0000059    0.000007725    3.49    4.00    3.25
SRCPARAM L0000060    0.000007725    3.49    4.00    3.25
SRCPARAM L0000061    0.000007725    3.49    4.00    3.25
SRCPARAM L0000062    0.000007725    3.49    4.00    3.25
SRCPARAM L0000063    0.000007725    3.49    4.00    3.25
SRCPARAM L0000064    0.000007725    3.49    4.00    3.25
SRCPARAM L0000065    0.000007725    3.49    4.00    3.25
SRCPARAM L0000066    0.000007725    3.49    4.00    3.25
SRCPARAM L0000067    0.000007725    3.49    4.00    3.25
SRCPARAM L0000068    0.000007725    3.49    4.00    3.25
SRCPARAM L0000069    0.000007725    3.49    4.00    3.25
SRCPARAM L0000070    0.000007725    3.49    4.00    3.25
SRCPARAM L0000071    0.000007725    3.49    4.00    3.25
SRCPARAM L0000072    0.000007725    3.49    4.00    3.25
SRCPARAM L0000073    0.000007725    3.49    4.00    3.25
SRCPARAM L0000074    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000076    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000078    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000085    0.000007725    3.49    4.00    3.25
SRCPARAM L0000086    0.000007725    3.49    4.00    3.25
SRCPARAM L0000087    0.000007725    3.49    4.00    3.25
SRCPARAM L0000088    0.000007725    3.49    4.00    3.25
SRCPARAM L0000089    0.000007725    3.49    4.00    3.25
SRCPARAM L0000090    0.000007725    3.49    4.00    3.25
SRCPARAM L0000091    0.000007725    3.49    4.00    3.25
SRCPARAM L0000092    0.000007725    3.49    4.00    3.25
SRCPARAM L0000093    0.000007725    3.49    4.00    3.25
SRCPARAM L0000094    0.000007725    3.49    4.00    3.25
SRCPARAM L0000095    0.000007725    3.49    4.00    3.25
SRCPARAM L0000096    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000098    0.000007725    3.49    4.00    3.25
SRCPARAM L0000099    0.000007725    3.49    4.00    3.25
SRCPARAM L0000100    0.000007725    3.49    4.00    3.25
SRCPARAM L0000101    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000104    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000106    0.000007725    3.49    4.00    3.25
SRCPARAM L0000107    0.000007725    3.49    4.00    3.25
SRCPARAM L0000108    0.000007725    3.49    4.00    3.25
SRCPARAM L0000109    0.000007725    3.49    4.00    3.25
SRCPARAM L0000110    0.000007725    3.49    4.00    3.25
SRCPARAM L0000111    0.000007725    3.49    4.00    3.25
SRCPARAM L0000112    0.000007725    3.49    4.00    3.25
SRCPARAM L0000113    0.000007725    3.49    4.00    3.25
SRCPARAM L0000114    0.000007725    3.49    4.00    3.25
SRCPARAM L0000115    0.000007725    3.49    4.00    3.25
SRCPARAM L0000116    0.000007725    3.49    4.00    3.25
SRCPARAM L0000117    0.000007725    3.49    4.00    3.25
SRCPARAM L0000118    0.000007725    3.49    4.00    3.25
SRCPARAM L0000119    0.000007725    3.49    4.00    3.25
SRCPARAM L0000120    0.000007725    3.49    4.00    3.25
SRCPARAM L0000121    0.000007725    3.49    4.00    3.25
SRCPARAM L0000122    0.000007725    3.49    4.00    3.25
SRCPARAM L0000123    0.000007725    3.49    4.00    3.25
SRCPARAM L0000124    0.000007725    3.49    4.00    3.25
SRCPARAM L0000125    0.000007725    3.49    4.00    3.25
SRCPARAM L0000126    0.000007725    3.49    4.00    3.25
SRCPARAM L0000127    0.000007725    3.49    4.00    3.25
SRCPARAM L0000128    0.000007725    3.49    4.00    3.25
SRCPARAM L0000129    0.000007725    3.49    4.00    3.25
SRCPARAM L0000130    0.000007725    3.49    4.00    3.25
SRCPARAM L0000131    0.000007725    3.49    4.00    3.25
SRCPARAM L0000132    0.000007725    3.49    4.00    3.25
SRCPARAM L0000133    0.000007725    3.49    4.00    3.25
SRCPARAM L0000134    0.000007725    3.49    4.00    3.25
SRCPARAM L0000135    0.000007725    3.49    4.00    3.25
SRCPARAM L0000136    0.000007725    3.49    4.00    3.25
SRCPARAM L0000137    0.000007725    3.49    4.00    3.25
SRCPARAM L0000138    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000141    0.000007725    3.49    4.00    3.25
SRCPARAM L0000142    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000144    0.000007725    3.49    4.00    3.25
SRCPARAM L0000145    0.000007725    3.49    4.00    3.25
SRCPARAM L0000146    0.000007725    3.49    4.00    3.25
SRCPARAM L0000147    0.000007725    3.49    4.00    3.25
SRCPARAM L0000148    0.000007725    3.49    4.00    3.25
SRCPARAM L0000149    0.000007725    3.49    4.00    3.25
SRCPARAM L0000150    0.000007725    3.49    4.00    3.25
SRCPARAM L0000151    0.000007725    3.49    4.00    3.25
SRCPARAM L0000152    0.000007725    3.49    4.00    3.25
SRCPARAM L0000153    0.000007725    3.49    4.00    3.25
SRCPARAM L0000154    0.000007725    3.49    4.00    3.25
SRCPARAM L0000155    0.000007725    3.49    4.00    3.25
SRCPARAM L0000156    0.000007725    3.49    4.00    3.25
SRCPARAM L0000157    0.000007725    3.49    4.00    3.25
SRCPARAM L0000158    0.000007725    3.49    4.00    3.25
SRCPARAM L0000159    0.000007725    3.49    4.00    3.25
SRCPARAM L0000160    0.000007725    3.49    4.00    3.25
SRCPARAM L0000161    0.000007725    3.49    4.00    3.25
SRCPARAM L0000162    0.000007725    3.49    4.00    3.25
SRCPARAM L0000163    0.000007725    3.49    4.00    3.25
SRCPARAM L0000164    0.000007725    3.49    4.00    3.25
SRCPARAM L0000165    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000167    0.000007725    3.49    4.00    3.25
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SRCPARAM L0000169     0.000007725     3.49     4.00     3.25
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SRCPARAM L0000171     0.000007725     3.49     4.00     3.25
SRCPARAM L0000172     0.000007725     3.49     4.00     3.25
SRCPARAM L0000173     0.000007725     3.49     4.00     3.25
SRCPARAM L0000174     0.000007725     3.49     4.00     3.25
SRCPARAM L0000175     0.000007725     3.49     4.00     3.25
SRCPARAM L0000176     0.000007725     3.49     4.00     3.25
SRCPARAM L0000177     0.000007725     3.49     4.00     3.25
SRCPARAM L0000178     0.000007725     3.49     4.00     3.25
SRCPARAM L0000179     0.000007725     3.49     4.00     3.25
SRCPARAM L0000180     0.000007725     3.49     4.00     3.25
SRCPARAM L0000181     0.000007725     3.49     4.00     3.25
SRCPARAM L0000182     0.000007725     3.49     4.00     3.25
SRCPARAM L0000183     0.000007725     3.49     4.00     3.25
SRCPARAM L0000184     0.000007725     3.49     4.00     3.25
SRCPARAM L0000185     0.000007725     3.49     4.00     3.25
SRCPARAM L0000186     0.000007725     3.49     4.00     3.25
SRCPARAM L0000187     0.000007725     3.49     4.00     3.25
SRCPARAM L0000188     0.000007725     3.49     4.00     3.25
SRCPARAM L0000189     0.000007725     3.49     4.00     3.25
SRCPARAM L0000190     0.000007725     3.49     4.00     3.25
SRCPARAM L0000191     0.000007725     3.49     4.00     3.25
SRCPARAM L0000192     0.000007725     3.49     4.00     3.25
SRCPARAM L0000193     0.000007725     3.49     4.00     3.25
SRCPARAM L0000194     0.000007725     3.49     4.00     3.25
SRCPARAM L0000195     0.000007725     3.49     4.00     3.25
SRCPARAM L0000196     0.000007725     3.49     4.00     3.25
SRCPARAM L0000197     0.000007725     3.49     4.00     3.25
SRCPARAM L0000198     0.000007725     3.49     4.00     3.25
SRCPARAM L0000199     0.000007725     3.49     4.00     3.25
SRCPARAM L0000200     0.000007725     3.49     4.00     3.25
SRCPARAM L0000201     0.000007725     3.49     4.00     3.25
SRCPARAM L0000202     0.000007725     3.49     4.00     3.25
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SRCPARAM L0000207     0.000007725     3.49     4.00     3.25
SRCPARAM L0000208     0.000007725     3.49     4.00     3.25
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SRCPARAM L0000210     0.000007725     3.49     4.00     3.25
SRCPARAM L0000211     0.000007725     3.49     4.00     3.25
SRCPARAM L0000212     0.000007725     3.49     4.00     3.25
SRCPARAM L0000213     0.000007725     3.49     4.00     3.25
SRCPARAM L0000214     0.000007725     3.49     4.00     3.25
SRCPARAM L0000215     0.000007725     3.49     4.00     3.25
SRCPARAM L0000216     0.000007725     3.49     4.00     3.25
SRCPARAM L0000217     0.000007725     3.49     4.00     3.25
SRCPARAM L0000218     0.000007725     3.49     4.00     3.25
SRCPARAM L0000219     0.000007725     3.49     4.00     3.25
SRCPARAM L0000220     0.000007725     3.49     4.00     3.25
SRCPARAM L0000221     0.000007725     3.49     4.00     3.25
SRCPARAM L0000222     0.000007725     3.49     4.00     3.25
SRCPARAM L0000223     0.000007725     3.49     4.00     3.25
SRCPARAM L0000224     0.000007725     3.49     4.00     3.25
SRCPARAM L0000225     0.000007725     3.49     4.00     3.25
SRCPARAM L0000226     0.000007725     3.49     4.00     3.25
SRCPARAM L0000227     0.000007725     3.49     4.00     3.25
SRCPARAM L0000228     0.000007725     3.49     4.00     3.25
SRCPARAM L0000229     0.000007725     3.49     4.00     3.25
SRCPARAM L0000230     0.000007725     3.49     4.00     3.25
SRCPARAM L0000231     0.000007725     3.49     4.00     3.25
SRCPARAM L0000232     0.000007725     3.49     4.00     3.25
SRCPARAM L0000233     0.000007725     3.49     4.00     3.25
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   SRCPARAM L0000235        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000236        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000237        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000238        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000239        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000240        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000241        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000242        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000243        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000244        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000245        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000246        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000247        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000248        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000249        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000250        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000251        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000252        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000253        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000254        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000255        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000256        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000257        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000258        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000259        0.000007725        3.49        4.00        3.25
   SRCPARAM L0000260        0.000007725        3.49        4.00        3.25
** ---------------------------------------------------------------------
   SRCPARAM VOL50          0.0001334318        5.000       43.702      1.400
   SRCPARAM VOL51          0.0001334318        5.000       43.702      1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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      EMISFACT VOL3          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL3          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL4          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL5          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL5          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL6          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL6          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL7          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL7          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL8          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL9          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL10         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL11         HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT VOL11        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL12        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL12        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL13        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL13        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL14        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL14        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL15        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL15        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL16        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL16        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL17        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL18        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL18        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL19        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL19        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL20        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL20        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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        EMISFACT VOL20           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL20           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL20           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL20           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL21           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL21           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL22           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL22           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL23           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL23           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
        EMISFACT VOL24           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Saturday:
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  Sunday:
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
        EMISFACT VOL24           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
**  WeekDays:
        EMISFACT VOL25           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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    EMISFACT VOL25        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL25        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL25        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL26        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL27        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL28        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL29        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
    EMISFACT VOL29        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
    EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL29          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL30          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL31          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL32          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL33          HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT VOL33       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL34       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL35       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL36       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL36       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL37       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL37       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL38       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL38       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
     EMISFACT VOL38       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
     EMISFACT VOL38       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL39        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL40        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL40        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL41        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL41        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL42        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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      EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL43        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL44        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL44        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL45        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL45        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
      EMISFACT VOL46        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL46        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL47        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL47       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL47       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL48       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL49       HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000001    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001    HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000001    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002    HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000002    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003    HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000003    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004    HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000004    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005    HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT L0000005    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006    HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006    HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT L0000006      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000006      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000007      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000007      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000007      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000008      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000008      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000008      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000009      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000009      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000009      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000010      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000010      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000010      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000011      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000011      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000011      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000012      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000012      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000012      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000013      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000013      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000013      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000014      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000014      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000014      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000015      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000015      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000015      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000016      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000016      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000016      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000017      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000017      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000017      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000018      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000018      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000018      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000019      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000019      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000019      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000020      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000020      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000020      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000021      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000021      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000021      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000022      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000022      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000022      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000023      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000023      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000023      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000023      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000024      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000024      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000024      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000025      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000025      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000025      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000026      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000026      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000026      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000027      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000027      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000027      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000028      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000028      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000028      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000029      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000029      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000029      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000030      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000030      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000030      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000031      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000031      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000031      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000032      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000032      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000032      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000033      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000033      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000033      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000034      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000034      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000034      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000035      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000035      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000035      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000036      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000036      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000036      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000037      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000037      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000037      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000038      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000038      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000038      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000039      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT L0000039        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000039        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000040        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000040        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000040        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000041        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000041        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000041        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000042        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000042        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
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EMISFACT L0000059      HRDOW 0.0  0.0  0.0  0.0  0.0  0.0
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EMISFACT L0000240      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000241      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000043      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000043      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000044      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000044      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000045      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000045      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000046      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000049      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000079      HRDOW 0.0  0.0  0.0  0.0  0.0  0.0
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EMISFACT L0000096      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000170      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0000171      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** WeekDays:
EMISFACT VOL50         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL50        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL50        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL51        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064-15 Cons HRA Mit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "14064-15 CONS HRA MIT.AD\PE00GALL.PLT" 31
   SUMMFILE "14064-15 Cons HRA Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***
```

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    --------- Summary of Total Messages --------

A Total of              0 Fatal Error Message(s)
A Total of              2 Warning Message(s)
A Total of              0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***


    ********   WARNING MESSAGES   ********
ME W186    4604        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    4604        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


***********************************
*** SETUP Finishes Successfully ***
***********************************

▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
*** AERMET - VERSION  16216 ***
***                                                              ***          11:38:46


                    PAGE   1
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        ***     MODEL SETUP OPTIONS SUMMARY      ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -


** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * Model Is Setup For Calculation of Average CONCentration Values.
     * NO GAS DEPOSITION Data Provided.
     * NO PARTICLE DEPOSITION Data Provided.
     * Model Uses NO DRY DEPLETION. DDPLETE  =  F
     * Model Uses NO WET DEPLETION. WETDPLT  =  F
     * Stack-tip Downwash.
     * Model Accounts for ELEVated Terrain Effects.
     * Use Calms Processing Routine.
     * Use Missing Data Processing Routine.
     * No Exponential Decay.
     * Model Uses URBAN Dispersion Algorithm for the SBL for   311 Source(s),
       for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*  - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:    311 Source(s);       1 Source Group(s); and     233 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and       0 POINTHOR(s)
                and:     311 VOLUME source(s)
                and:       0 AREA type source(s)
                and:       0 LINE source(s)
                and:       0 RLINE/RLINEXT source(s)
                and:       0 OPENPIT source(s)
                and:       0 BUOYANT LINE source(s) with a total of      0 line(s)
```

```
                  and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000    ;  Rot. Angle =      0.0
                Emission Units = GRAMS/SEC                           ;  Emission Rate
                Unit Factor =   0.10000E+07
                Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.8 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064-15 Cons HRA
Mit.err
**File for Summary of Results:   14064-15 Cons HRA
Mit.sum
▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                       ***      11:38:46

                  PAGE   2
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                    *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT     SY       SZ
  SOURCE   SCALAR VARY
   ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -


VOL1            0   0.13343E-03  471175.5 3752366.4  510.2    5.00     43.70     1.40
YES   HRDOW
VOL2            0   0.13343E-03  471362.2 3752367.6  512.4    5.00     43.70     1.40
YES   HRDOW
VOL3            0   0.13343E-03  471550.1 3752368.4  518.9    5.00     43.70     1.40
YES   HRDOW
VOL4            0   0.13343E-03  471609.6 3752371.6  516.0    5.00     43.70     1.40
YES   HRDOW
VOL5            0   0.13343E-03  471796.7 3752342.2  515.1    5.00     43.70     1.40
YES   HRDOW
VOL6            0   0.13343E-03  471984.7 3752344.6  513.6    5.00     43.70     1.40
YES   HRDOW
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VOL7              0   0.13343E-03  472003.7 3752347.0  512.1   5.00  43.70  1.40
YES    HRDOW
VOL8              0   0.13343E-03  472002.9 3752159.1  521.6   5.00  43.70  1.40
YES    HRDOW
VOL9              0   0.13343E-03  471814.2 3752156.7  520.7   5.00  43.70  1.40
YES    HRDOW
VOL10             0   0.13343E-03  471628.6 3752181.3  526.8   5.00  43.70  1.40
YES    HRDOW
VOL11             0   0.13343E-03  471440.7 3752181.3  527.4   5.00  43.70  1.40
YES    HRDOW
VOL12             0   0.13343E-03  471253.6 3752180.5  518.9   5.00  43.70  1.40
YES    HRDOW
VOL13             0   0.13343E-03  471092.6 3752217.7  509.6   5.00  43.70  1.40
YES    HRDOW
VOL14             0   0.13343E-03  471074.4 3752029.0  516.1   5.00  43.70  1.40
YES    HRDOW
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YES    HRDOW
VOL16             0   0.13343E-03  471452.6 3751994.1  530.0   5.00  43.70  1.40
YES    HRDOW
VOL17             0   0.13343E-03  471640.5 3751992.5  534.9   5.00  43.70  1.40
YES    HRDOW
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YES    HRDOW
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YES    HRDOW
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YES    HRDOW
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YES    HRDOW
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YES    HRDOW
VOL33             0   0.13343E-03  471577.9 3751434.3  531.1   5.00  43.70  1.40
YES    HRDOW
VOL34             0   0.13343E-03  471390.0 3751431.9  537.3   5.00  43.70  1.40
YES    HRDOW
VOL35             0   0.13343E-03  471202.0 3751467.6  526.8   5.00  43.70  1.40
YES    HRDOW
VOL36             0   0.13343E-03  471065.7 3751504.9  522.0   5.00  43.70  1.40
YES    HRDOW
VOL37             0   0.13343E-03  471656.4 3751514.4  529.5   5.00  43.70  1.40
YES    HRDOW
VOL38             0   0.13343E-03  471522.4 3751324.1  529.0   5.00  43.70  1.40
YES    HRDOW
VOL39             0   0.13343E-03  471332.9 3751322.5  529.5   5.00  43.70  1.40
YES    HRDOW
```

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VOL40            0   0.13343E-03  471282.9 3751321.7   528.2     5.00    43.70    1.40
YES   HRDOW
```

■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN PART.	EMISSION RATE (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE ID (METERS)	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	

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- - - - - - - - - - - - -

VOL41            0   0.13343E-03  471233.8 3751388.3   528.5     5.00    43.70    1.40
YES   HRDOW
VOL42            0   0.13343E-03  472135.6 3751845.1   525.8     5.00    43.70    1.40
YES   HRDOW
VOL43            0   0.13343E-03  472323.4 3751843.5   510.5     5.00    43.70    1.40
YES   HRDOW
VOL44            0   0.13343E-03  472512.5 3751852.3   501.4     5.00    43.70    1.40
YES   HRDOW
VOL45            0   0.13343E-03  472698.0 3751875.5   491.4     5.00    43.70    1.40
YES   HRDOW
VOL46            0   0.13343E-03  472880.8 3751928.7   487.9     5.00    43.70    1.40
YES   HRDOW
VOL47            0   0.13343E-03  472608.0 3752044.6   498.5     5.00    43.70    1.40
YES   HRDOW
VOL48            0   0.13343E-03  471084.5 3752407.2   506.8     5.00    43.70    1.40
YES   HRDOW
VOL49            0   0.13343E-03  471071.4 3751309.4   519.0     5.00    43.70    1.40
YES   HRDOW
L0000001         0   0.77250E-05  472090.3 3751866.1   530.3     3.49     4.00    3.25
YES   HRDOW
L0000002         0   0.77250E-05  472098.6 3751864.0   530.0     3.49     4.00    3.25
YES   HRDOW
L0000003         0   0.77250E-05  472107.0 3751861.8   529.6     3.49     4.00    3.25
YES   HRDOW
L0000004         0   0.77250E-05  472115.3 3751859.7   529.2     3.49     4.00    3.25
YES   HRDOW
L0000005         0   0.77250E-05  472123.6 3751857.5   528.3     3.49     4.00    3.25
YES   HRDOW
L0000006         0   0.77250E-05  472131.9 3751855.4   526.9     3.49     4.00    3.25
YES   HRDOW
L0000007         0   0.77250E-05  472140.2 3751853.2   525.3     3.49     4.00    3.25
YES   HRDOW
L0000008         0   0.77250E-05  472148.5 3751851.1   523.6     3.49     4.00    3.25
YES   HRDOW
L0000009         0   0.77250E-05  472156.9 3751848.9   522.1     3.49     4.00    3.25
YES   HRDOW
L0000010         0   0.77250E-05  472165.2 3751846.8   520.4     3.49     4.00    3.25
YES   HRDOW
L0000011         0   0.77250E-05  472173.5 3751844.6   519.2     3.49     4.00    3.25
YES   HRDOW
L0000012         0   0.77250E-05  472181.8 3751842.6   518.3     3.49     4.00    3.25
YES   HRDOW
L0000013         0   0.77250E-05  472190.4 3751841.6   518.2     3.49     4.00    3.25
YES   HRDOW
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L0000014         0   0.77250E-05  472198.9 3751840.7   518.1      3.49      4.00      3.25
YES    HRDOW
L0000015         0   0.77250E-05  472207.4 3751839.7   518.0      3.49      4.00      3.25
YES    HRDOW
L0000016         0   0.77250E-05  472216.0 3751838.7   518.1      3.49      4.00      3.25
YES    HRDOW
L0000017         0   0.77250E-05  472224.5 3751837.7   518.3      3.49      4.00      3.25
YES    HRDOW
L0000018         0   0.77250E-05  472233.0 3751836.7   518.6      3.49      4.00      3.25
YES    HRDOW
L0000019         0   0.77250E-05  472241.6 3751835.7   518.5      3.49      4.00      3.25
YES    HRDOW
L0000020         0   0.77250E-05  472250.1 3751834.7   517.4      3.49      4.00      3.25
YES    HRDOW
L0000021         0   0.77250E-05  472258.7 3751835.2   516.0      3.49      4.00      3.25
YES    HRDOW
L0000022         0   0.77250E-05  472267.2 3751835.8   514.5      3.49      4.00      3.25
YES    HRDOW
L0000023         0   0.77250E-05  472275.8 3751836.4   513.6      3.49      4.00      3.25
YES    HRDOW
L0000024         0   0.77250E-05  472284.4 3751836.9   513.0      3.49      4.00      3.25
YES    HRDOW
L0000025         0   0.77250E-05  472293.0 3751837.5   512.3      3.49      4.00      3.25
YES    HRDOW
L0000026         0   0.77250E-05  472301.5 3751838.1   511.8      3.49      4.00      3.25
YES    HRDOW
L0000027         0   0.77250E-05  472310.1 3751838.6   511.4      3.49      4.00      3.25
YES    HRDOW
L0000028         0   0.77250E-05  472318.7 3751839.2   511.1      3.49      4.00      3.25
YES    HRDOW
L0000029         0   0.77250E-05  472327.2 3751839.8   510.8      3.49      4.00      3.25
YES    HRDOW
L0000030         0   0.77250E-05  472335.8 3751840.4   509.8      3.49      4.00      3.25
YES    HRDOW
L0000031         0   0.77250E-05  472344.4 3751841.1   508.6      3.49      4.00      3.25
YES    HRDOW
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

```
            NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)     X         Y      ELEV.    HEIGHT     SY        SZ
  SOURCE  SCALAR VARY
    ID      CATS.               (METERS)  (METERS) (METERS) (METERS) (METERS)
   (METERS)              BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0000032         0   0.77250E-05  472352.9 3751841.7   507.4      3.49      4.00      3.25
YES    HRDOW
L0000033         0   0.77250E-05  472361.5 3751842.3   506.4      3.49      4.00      3.25
YES    HRDOW
L0000034         0   0.77250E-05  472370.1 3751843.0   506.0      3.49      4.00      3.25
YES    HRDOW
L0000035         0   0.77250E-05  472378.6 3751843.6   505.6      3.49      4.00      3.25
YES    HRDOW
L0000036         0   0.77250E-05  472387.2 3751844.2   505.2      3.49      4.00      3.25
YES    HRDOW
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L0000037        0   0.77250E-05   472395.8 3751844.8    505.1     3.49    4.00    3.25
YES    HRDOW
L0000038        0   0.77250E-05   472404.3 3751845.5    505.1     3.49    4.00    3.25
YES    HRDOW
L0000039        0   0.77250E-05   472412.9 3751846.1    505.0     3.49    4.00    3.25
YES    HRDOW
L0000040        0   0.77250E-05   472421.5 3751846.7    505.1     3.49    4.00    3.25
YES    HRDOW
L0000041        0   0.77250E-05   472430.0 3751847.4    505.3     3.49    4.00    3.25
YES    HRDOW
L0000042        0   0.77250E-05   472438.6 3751848.0    505.6     3.49    4.00    3.25
YES    HRDOW
L0000043        0   0.77250E-05   472447.2 3751848.6    505.9     3.49    4.00    3.25
YES    HRDOW
L0000044        0   0.77250E-05   472455.7 3751849.3    505.6     3.49    4.00    3.25
YES    HRDOW
L0000045        0   0.77250E-05   472464.3 3751849.9    505.1     3.49    4.00    3.25
YES    HRDOW
L0000046        0   0.77250E-05   472472.9 3751850.5    504.7     3.49    4.00    3.25
YES    HRDOW
L0000047        0   0.77250E-05   472481.4 3751851.1    504.1     3.49    4.00    3.25
YES    HRDOW
L0000048        0   0.77250E-05   472490.0 3751851.8    503.4     3.49    4.00    3.25
YES    HRDOW
L0000049        0   0.77250E-05   472498.6 3751852.4    502.6     3.49    4.00    3.25
YES    HRDOW
L0000050        0   0.77250E-05   472507.1 3751853.0    501.9     3.49    4.00    3.25
YES    HRDOW
L0000051        0   0.77250E-05   472515.7 3751853.7    501.4     3.49    4.00    3.25
YES    HRDOW
L0000052        0   0.77250E-05   472524.3 3751854.3    501.2     3.49    4.00    3.25
YES    HRDOW
L0000053        0   0.77250E-05   472532.8 3751854.9    500.8     3.49    4.00    3.25
YES    HRDOW
L0000054        0   0.77250E-05   472541.4 3751855.6    500.5     3.49    4.00    3.25
YES    HRDOW
L0000055        0   0.77250E-05   472550.0 3751856.4    499.9     3.49    4.00    3.25
YES    HRDOW
L0000056        0   0.77250E-05   472558.5 3751857.3    499.2     3.49    4.00    3.25
YES    HRDOW
L0000057        0   0.77250E-05   472567.0 3751858.2    498.6     3.49    4.00    3.25
YES    HRDOW
L0000058        0   0.77250E-05   472575.6 3751859.1    497.6     3.49    4.00    3.25
YES    HRDOW
L0000059        0   0.77250E-05   472584.1 3751860.0    496.5     3.49    4.00    3.25
YES    HRDOW
L0000060        0   0.77250E-05   472592.7 3751860.9    495.4     3.49    4.00    3.25
YES    HRDOW
L0000061        0   0.77250E-05   472601.2 3751861.8    494.5     3.49    4.00    3.25
YES    HRDOW
L0000062        0   0.77250E-05   472609.8 3751862.7    494.4     3.49    4.00    3.25
YES    HRDOW
L0000063        0   0.77250E-05   472618.3 3751863.6    494.2     3.49    4.00    3.25
YES    HRDOW
L0000064        0   0.77250E-05   472626.8 3751864.5    494.1     3.49    4.00    3.25
YES    HRDOW
L0000065        0   0.77250E-05   472635.4 3751865.4    493.8     3.49    4.00    3.25
YES    HRDOW
L0000066        0   0.77250E-05   472643.9 3751866.3    493.4     3.49    4.00    3.25
YES    HRDOW
L0000067        0   0.77250E-05   472652.5 3751867.2    492.9     3.49    4.00    3.25
YES    HRDOW
L0000068        0   0.77250E-05   472661.0 3751868.1    492.5     3.49    4.00    3.25
YES    HRDOW
L0000069        0   0.77250E-05   472669.6 3751869.0    492.3     3.49    4.00    3.25
YES    HRDOW
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L0000070          0   0.77250E-05   472678.1 3751869.9    492.0     3.49      4.00     3.25
  YES    HRDOW
L0000071          0   0.77250E-05   472686.6 3751870.8    491.7     3.49      4.00     3.25
  YES    HRDOW
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000072 YES HRDOW	0	0.77250E-05	472695.2	3751871.7	491.7	3.49	4.00	3.25
L0000073 YES HRDOW	0	0.77250E-05	472703.7	3751872.6	491.8	3.49	4.00	3.25
L0000074 YES HRDOW	0	0.77250E-05	472712.3	3751873.5	492.0	3.49	4.00	3.25
L0000075 YES HRDOW	0	0.77250E-05	472720.4	3751876.1	492.1	3.49	4.00	3.25
L0000076 YES HRDOW	0	0.77250E-05	472728.5	3751879.1	492.0	3.49	4.00	3.25
L0000077 YES HRDOW	0	0.77250E-05	472736.5	3751882.0	491.8	3.49	4.00	3.25
L0000078 YES HRDOW	0	0.77250E-05	472744.6	3751885.0	491.7	3.49	4.00	3.25
L0000079 YES HRDOW	0	0.77250E-05	472752.6	3751888.0	491.6	3.49	4.00	3.25
L0000080 YES HRDOW	0	0.77250E-05	472760.7	3751891.0	491.3	3.49	4.00	3.25
L0000081 YES HRDOW	0	0.77250E-05	472768.8	3751894.0	491.0	3.49	4.00	3.25
L0000082 YES HRDOW	0	0.77250E-05	472776.8	3751896.9	490.6	3.49	4.00	3.25
L0000083 YES HRDOW	0	0.77250E-05	472784.9	3751899.9	490.4	3.49	4.00	3.25
L0000084 YES HRDOW	0	0.77250E-05	472792.9	3751902.9	490.4	3.49	4.00	3.25
L0000085 YES HRDOW	0	0.77250E-05	472801.0	3751905.9	490.5	3.49	4.00	3.25
L0000086 YES HRDOW	0	0.77250E-05	472809.1	3751908.8	490.7	3.49	4.00	3.25
L0000087 YES HRDOW	0	0.77250E-05	472817.1	3751911.8	490.1	3.49	4.00	3.25
L0000088 YES HRDOW	0	0.77250E-05	472825.2	3751914.8	489.4	3.49	4.00	3.25
L0000089 YES HRDOW	0	0.77250E-05	472833.2	3751917.8	488.9	3.49	4.00	3.25
L0000090 YES HRDOW	0	0.77250E-05	472841.3	3751920.7	488.5	3.49	4.00	3.25
L0000091 YES HRDOW	0	0.77250E-05	472849.3	3751923.7	488.3	3.49	4.00	3.25
L0000092 YES HRDOW	0	0.77250E-05	472857.4	3751926.7	488.1	3.49	4.00	3.25

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L0000093        0  0.77250E-05  472865.5 3751929.7   488.0    3.49    4.00    3.25
YES   HRDOW
L0000094        0  0.77250E-05  472873.5 3751932.7   488.0    3.49    4.00    3.25
YES   HRDOW
L0000095        0  0.77250E-05  472881.6 3751935.6   488.0    3.49    4.00    3.25
YES   HRDOW
L0000096        0  0.77250E-05  472889.6 3751938.6   488.0    3.49    4.00    3.25
YES   HRDOW
L0000097        0  0.77250E-05  472897.7 3751941.6   488.0    3.49    4.00    3.25
YES   HRDOW
L0000098        0  0.77250E-05  472905.7 3751944.6   487.8    3.49    4.00    3.25
YES   HRDOW
L0000099        0  0.77250E-05  472913.8 3751947.5   487.5    3.49    4.00    3.25
YES   HRDOW
L0000100        0  0.77250E-05  472921.9 3751950.5   487.3    3.49    4.00    3.25
YES   HRDOW
L0000101        0  0.77250E-05  472929.9 3751953.5   487.0    3.49    4.00    3.25
YES   HRDOW
L0000102        0  0.77250E-05  472938.0 3751956.5   487.0    3.49    4.00    3.25
YES   HRDOW
L0000103        0  0.77250E-05  472946.0 3751959.4   487.0    3.49    4.00    3.25
YES   HRDOW
L0000104        0  0.77250E-05  472954.1 3751962.4   487.0    3.49    4.00    3.25
YES   HRDOW
L0000105        0  0.77250E-05  472962.1 3751965.4   486.9    3.49    4.00    3.25
YES   HRDOW
L0000106        0  0.77250E-05  472970.2 3751968.3   486.6    3.49    4.00    3.25
YES   HRDOW
L0000107        0  0.77250E-05  472978.4 3751970.9   486.2    3.49    4.00    3.25
YES   HRDOW
L0000108        0  0.77250E-05  472986.6 3751973.5   485.9    3.49    4.00    3.25
YES   HRDOW
L0000109        0  0.77250E-05  472994.8 3751976.1   485.6    3.49    4.00    3.25
YES   HRDOW
L0000110        0  0.77250E-05  473003.0 3751978.7   485.3    3.49    4.00    3.25
YES   HRDOW
L0000111        0  0.77250E-05  473011.2 3751981.3   485.1    3.49    4.00    3.25
YES   HRDOW
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
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L0000112        0  0.77250E-05  473019.4 3751983.8   485.0    3.49    4.00    3.25
YES   HRDOW
L0000113        0  0.77250E-05  473027.6 3751986.4   484.8    3.49    4.00    3.25
YES   HRDOW
L0000114        0  0.77250E-05  473035.8 3751989.0   484.6    3.49    4.00    3.25
YES   HRDOW
L0000115        0  0.77250E-05  473043.9 3751991.6   484.3    3.49    4.00    3.25
YES   HRDOW
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L0000116        0   0.77250E-05   473052.1 3751994.2   484.0    3.49    4.00    3.25
YES    HRDOW
L0000117        0   0.77250E-05   473060.3 3751996.8   483.6    3.49    4.00    3.25
YES    HRDOW
L0000118        0   0.77250E-05   473068.7 3751998.6   483.4    3.49    4.00    3.25
YES    HRDOW
L0000119        0   0.77250E-05   473077.1 3752000.2   483.1    3.49    4.00    3.25
YES    HRDOW
L0000120        0   0.77250E-05   473085.6 3752001.9   483.0    3.49    4.00    3.25
YES    HRDOW
L0000121        0   0.77250E-05   473094.0 3752003.5   483.0    3.49    4.00    3.25
YES    HRDOW
L0000122        0   0.77250E-05   473102.4 3752005.1   483.0    3.49    4.00    3.25
YES    HRDOW
L0000123        0   0.77250E-05   473110.9 3752006.8   483.0    3.49    4.00    3.25
YES    HRDOW
L0000124        0   0.77250E-05   473119.3 3752008.4   482.7    3.49    4.00    3.25
YES    HRDOW
L0000125        0   0.77250E-05   473127.7 3752010.1   482.4    3.49    4.00    3.25
YES    HRDOW
L0000126        0   0.77250E-05   473136.2 3752011.7   482.1    3.49    4.00    3.25
YES    HRDOW
L0000127        0   0.77250E-05   473144.6 3752013.3   481.9    3.49    4.00    3.25
YES    HRDOW
L0000128        0   0.77250E-05   473153.0 3752015.0   481.7    3.49    4.00    3.25
YES    HRDOW
L0000129        0   0.77250E-05   473161.5 3752016.6   481.5    3.49    4.00    3.25
YES    HRDOW
L0000130        0   0.77250E-05   473169.9 3752018.2   481.3    3.49    4.00    3.25
YES    HRDOW
L0000131        0   0.77250E-05   473178.5 3752018.8   481.2    3.49    4.00    3.25
YES    HRDOW
L0000132        0   0.77250E-05   473187.0 3752019.3   481.1    3.49    4.00    3.25
YES    HRDOW
L0000133        0   0.77250E-05   473195.6 3752019.8   481.0    3.49    4.00    3.25
YES    HRDOW
L0000134        0   0.77250E-05   473204.2 3752020.3   480.9    3.49    4.00    3.25
YES    HRDOW
L0000135        0   0.77250E-05   473212.8 3752020.8   480.6    3.49    4.00    3.25
YES    HRDOW
L0000136        0   0.77250E-05   473221.3 3752021.2   480.3    3.49    4.00    3.25
YES    HRDOW
L0000137        0   0.77250E-05   473229.9 3752021.7   480.0    3.49    4.00    3.25
YES    HRDOW
L0000138        0   0.77250E-05   473238.5 3752022.2   480.0    3.49    4.00    3.25
YES    HRDOW
L0000139        0   0.77250E-05   473247.1 3752022.7   480.0    3.49    4.00    3.25
YES    HRDOW
L0000140        0   0.77250E-05   473255.7 3752023.1   480.0    3.49    4.00    3.25
YES    HRDOW
L0000141        0   0.77250E-05   473264.2 3752023.6   479.9    3.49    4.00    3.25
YES    HRDOW
L0000142        0   0.77250E-05   473272.8 3752024.1   479.6    3.49    4.00    3.25
YES    HRDOW
L0000143        0   0.77250E-05   473281.4 3752024.6   479.3    3.49    4.00    3.25
YES    HRDOW
L0000144        0   0.77250E-05   473290.0 3752025.0   479.0    3.49    4.00    3.25
YES    HRDOW
L0000145        0   0.77250E-05   473298.5 3752025.5   478.7    3.49    4.00    3.25
YES    HRDOW
L0000146        0   0.77250E-05   473307.1 3752026.0   478.4    3.49    4.00    3.25
YES    HRDOW
L0000147        0   0.77250E-05   473315.7 3752026.5   478.1    3.49    4.00    3.25
YES    HRDOW
L0000148        0   0.77250E-05   473324.3 3752026.9   477.8    3.49    4.00    3.25
YES    HRDOW
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L0000149          0   0.77250E-05  473332.8 3752027.4   477.5    3.49    4.00    3.25
   YES    HRDOW
L0000150          0   0.77250E-05  473341.4 3752027.9   477.3    3.49    4.00    3.25
   YES    HRDOW
L0000151          0   0.77250E-05  473350.0 3752028.4   477.0    3.49    4.00    3.25
   YES    HRDOW
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🆔 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR CATS. (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

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L0000152          0   0.77250E-05  473358.6 3752028.9   476.7    3.49    4.00    3.25
   YES    HRDOW
L0000153          0   0.77250E-05  473367.2 3752029.3   476.4    3.49    4.00    3.25
   YES    HRDOW
L0000154          0   0.77250E-05  473375.7 3752029.8   476.1    3.49    4.00    3.25
   YES    HRDOW
L0000155          0   0.77250E-05  473384.3 3752030.3   476.0    3.49    4.00    3.25
   YES    HRDOW
L0000156          0   0.77250E-05  473392.9 3752030.8   476.0    3.49    4.00    3.25
   YES    HRDOW
L0000157          0   0.77250E-05  473401.5 3752031.2   476.0    3.49    4.00    3.25
   YES    HRDOW
L0000158          0   0.77250E-05  473410.0 3752032.0   476.0    3.49    4.00    3.25
   YES    HRDOW
L0000159          0   0.77250E-05  473418.6 3752032.9   475.8    3.49    4.00    3.25
   YES    HRDOW
L0000160          0   0.77250E-05  473427.1 3752033.9   475.6    3.49    4.00    3.25
   YES    HRDOW
L0000161          0   0.77250E-05  473435.6 3752034.8   475.4    3.49    4.00    3.25
   YES    HRDOW
L0000162          0   0.77250E-05  473444.2 3752035.8   475.3    3.49    4.00    3.25
   YES    HRDOW
L0000163          0   0.77250E-05  473452.7 3752036.7   475.2    3.49    4.00    3.25
   YES    HRDOW
L0000164          0   0.77250E-05  473461.2 3752037.6   475.1    3.49    4.00    3.25
   YES    HRDOW
L0000165          0   0.77250E-05  473469.8 3752038.6   475.0    3.49    4.00    3.25
   YES    HRDOW
L0000166          0   0.77250E-05  473478.3 3752039.5   475.0    3.49    4.00    3.25
   YES    HRDOW
L0000167          0   0.77250E-05  473486.9 3752040.5   475.0    3.49    4.00    3.25
   YES    HRDOW
L0000168          0   0.77250E-05  473495.4 3752041.4   475.0    3.49    4.00    3.25
   YES    HRDOW
L0000169          0   0.77250E-05  473503.9 3752042.3   474.9    3.49    4.00    3.25
   YES    HRDOW
L0000170          0   0.77250E-05  473512.5 3752043.3   474.8    3.49    4.00    3.25
   YES    HRDOW
L0000171          0   0.77250E-05  473521.0 3752044.2   474.6    3.49    4.00    3.25
   YES    HRDOW
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L0000172          0  0.77250E-05  473529.6 3752045.2    474.4    3.49    4.00    3.25
YES    HRDOW
L0000173          0  0.77250E-05  473538.1 3752046.1    474.2    3.49    4.00    3.25
YES    HRDOW
L0000174          0  0.77250E-05  473546.6 3752047.1    474.1    3.49    4.00    3.25
YES    HRDOW
L0000175          0  0.77250E-05  473555.2 3752048.0    474.0    3.49    4.00    3.25
YES    HRDOW
L0000176          0  0.77250E-05  473563.7 3752048.9    473.9    3.49    4.00    3.25
YES    HRDOW
L0000177          0  0.77250E-05  473572.2 3752049.9    473.6    3.49    4.00    3.25
YES    HRDOW
L0000178          0  0.77250E-05  473580.8 3752050.8    473.3    3.49    4.00    3.25
YES    HRDOW
L0000179          0  0.77250E-05  473589.3 3752051.8    473.0    3.49    4.00    3.25
YES    HRDOW
L0000180          0  0.77250E-05  473597.9 3752052.7    472.8    3.49    4.00    3.25
YES    HRDOW
L0000181          0  0.77250E-05  473606.4 3752053.6    472.5    3.49    4.00    3.25
YES    HRDOW
L0000182          0  0.77250E-05  473614.9 3752054.6    472.2    3.49    4.00    3.25
YES    HRDOW
L0000183          0  0.77250E-05  473623.5 3752055.5    472.2    3.49    4.00    3.25
YES    HRDOW
L0000184          0  0.77250E-05  473632.0 3752056.0    472.4    3.49    4.00    3.25
YES    HRDOW
L0000185          0  0.77250E-05  473640.6 3752056.2    472.7    3.49    4.00    3.25
YES    HRDOW
L0000186          0  0.77250E-05  473649.2 3752056.4    473.0    3.49    4.00    3.25
YES    HRDOW
L0000187          0  0.77250E-05  473657.8 3752056.6    473.0    3.49    4.00    3.25
YES    HRDOW
L0000188          0  0.77250E-05  473666.4 3752056.8    473.0    3.49    4.00    3.25
YES    HRDOW
L0000189          0  0.77250E-05  473675.0 3752057.0    473.0    3.49    4.00    3.25
YES    HRDOW
L0000190          0  0.77250E-05  473683.6 3752057.2    473.0    3.49    4.00    3.25
YES    HRDOW
L0000191          0  0.77250E-05  473692.2 3752057.4    473.0    3.49    4.00    3.25
YES    HRDOW
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000192	0	0.77250E-05	473700.7	3752057.6	473.0	3.49	4.00	3.25
YES	HRDOW							
L0000193	0	0.77250E-05	473709.3	3752057.9	473.0	3.49	4.00	3.25
YES	HRDOW							
L0000194	0	0.77250E-05	473717.9	3752058.1	473.0	3.49	4.00	3.25
YES	HRDOW							

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L0000195           0   0.77250E-05   473726.5 3752058.3   473.0   3.49   4.00   3.25
YES    HRDOW
L0000196           0   0.77250E-05   473735.1 3752058.5   472.9   3.49   4.00   3.25
YES    HRDOW
L0000197           0   0.77250E-05   473743.7 3752058.7   472.9   3.49   4.00   3.25
YES    HRDOW
L0000198           0   0.77250E-05   473752.3 3752058.9   472.9   3.49   4.00   3.25
YES    HRDOW
L0000199           0   0.77250E-05   473760.8 3752059.2   472.9   3.49   4.00   3.25
YES    HRDOW
L0000200           0   0.77250E-05   473769.4 3752060.4   472.9   3.49   4.00   3.25
YES    HRDOW
L0000201           0   0.77250E-05   473777.9 3752061.5   472.8   3.49   4.00   3.25
YES    HRDOW
L0000202           0   0.77250E-05   473786.4 3752062.6   472.8   3.49   4.00   3.25
YES    HRDOW
L0000203           0   0.77250E-05   473794.9 3752063.7   472.8   3.49   4.00   3.25
YES    HRDOW
L0000204           0   0.77250E-05   473803.4 3752064.9   472.7   3.49   4.00   3.25
YES    HRDOW
L0000205           0   0.77250E-05   473811.9 3752066.0   472.7   3.49   4.00   3.25
YES    HRDOW
L0000206           0   0.77250E-05   473820.5 3752067.1   472.7   3.49   4.00   3.25
YES    HRDOW
L0000207           0   0.77250E-05   473829.0 3752068.2   472.6   3.49   4.00   3.25
YES    HRDOW
L0000208           0   0.77250E-05   473837.5 3752069.3   472.7   3.49   4.00   3.25
YES    HRDOW
L0000209           0   0.77250E-05   473846.0 3752070.5   472.8   3.49   4.00   3.25
YES    HRDOW
L0000210           0   0.77250E-05   473854.5 3752071.6   472.9   3.49   4.00   3.25
YES    HRDOW
L0000211           0   0.77250E-05   473863.0 3752072.7   472.9   3.49   4.00   3.25
YES    HRDOW
L0000212           0   0.77250E-05   473871.6 3752073.8   472.8   3.49   4.00   3.25
YES    HRDOW
L0000213           0   0.77250E-05   473880.1 3752074.9   472.6   3.49   4.00   3.25
YES    HRDOW
L0000214           0   0.77250E-05   473888.5 3752076.4   472.4   3.49   4.00   3.25
YES    HRDOW
L0000215           0   0.77250E-05   473897.0 3752078.1   472.2   3.49   4.00   3.25
YES    HRDOW
L0000216           0   0.77250E-05   473905.4 3752079.8   472.1   3.49   4.00   3.25
YES    HRDOW
L0000217           0   0.77250E-05   473913.8 3752081.4   472.0   3.49   4.00   3.25
YES    HRDOW
L0000218           0   0.77250E-05   473922.2 3752083.1   471.9   3.49   4.00   3.25
YES    HRDOW
L0000219           0   0.77250E-05   473930.7 3752084.8   471.7   3.49   4.00   3.25
YES    HRDOW
L0000220           0   0.77250E-05   473939.1 3752086.4   471.4   3.49   4.00   3.25
YES    HRDOW
L0000221           0   0.77250E-05   473947.5 3752088.1   471.1   3.49   4.00   3.25
YES    HRDOW
L0000222           0   0.77250E-05   473955.9 3752089.8   471.0   3.49   4.00   3.25
YES    HRDOW
L0000223           0   0.77250E-05   473964.4 3752091.5   470.9   3.49   4.00   3.25
YES    HRDOW
L0000224           0   0.77250E-05   473972.8 3752093.1   470.8   3.49   4.00   3.25
YES    HRDOW
L0000225           0   0.77250E-05   473981.2 3752094.8   470.7   3.49   4.00   3.25
YES    HRDOW
L0000226           0   0.77250E-05   473989.6 3752096.5   470.4   3.49   4.00   3.25
YES    HRDOW
L0000227           0   0.77250E-05   473998.1 3752098.2   470.2   3.49   4.00   3.25
YES    HRDOW
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L0000228          0   0.77250E-05   474006.5 3752099.8   470.1     3.49      4.00      3.25
  YES    HRDOW
L0000229          0   0.77250E-05   474014.9 3752101.5   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000230          0   0.77250E-05   474023.3 3752103.2   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000231          0   0.77250E-05   474031.8 3752104.8   470.0     3.49      4.00      3.25
  YES    HRDOW
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▯▯ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                   *** VOLUME SOURCE DATA ***

                NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
                URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - -

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L0000232          0   0.77250E-05   474040.2 3752106.5   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000233          0   0.77250E-05   474048.6 3752108.2   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000234          0   0.77250E-05   474057.0 3752109.9   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000235          0   0.77250E-05   474065.5 3752111.5   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000236          0   0.77250E-05   474073.9 3752113.2   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000237          0   0.77250E-05   474082.3 3752114.9   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000238          0   0.77250E-05   474090.8 3752116.6   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000239          0   0.77250E-05   474099.2 3752118.2   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000240          0   0.77250E-05   474107.6 3752119.8   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000241          0   0.77250E-05   474116.1 3752121.3   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000242          0   0.77250E-05   474124.5 3752122.7   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000243          0   0.77250E-05   474133.0 3752124.2   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000244          0   0.77250E-05   474141.5 3752125.7   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000245          0   0.77250E-05   474149.9 3752127.1   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000246          0   0.77250E-05   474158.4 3752128.6   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000247          0   0.77250E-05   474166.9 3752130.1   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000248          0   0.77250E-05   474175.3 3752131.5   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000249          0   0.77250E-05   474183.8 3752133.0   470.0     3.49      4.00      3.25
  YES    HRDOW
L0000250          0   0.77250E-05   474192.3 3752134.4   470.0     3.49      4.00      3.25
  YES    HRDOW
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L0000251          0   0.77250E-05   474200.7 3752135.9    470.0     3.49     4.00     3.25
YES    HRDOW
L0000252          0   0.77250E-05   474209.2 3752137.4    470.0     3.49     4.00     3.25
YES    HRDOW
L0000253          0   0.77250E-05   474217.7 3752138.8    470.0     3.49     4.00     3.25
YES    HRDOW
L0000254          0   0.77250E-05   474226.1 3752140.3    470.0     3.49     4.00     3.25
YES    HRDOW
L0000255          0   0.77250E-05   474234.6 3752141.8    470.0     3.49     4.00     3.25
YES    HRDOW
L0000256          0   0.77250E-05   474243.1 3752143.2    470.0     3.49     4.00     3.25
YES    HRDOW
L0000257          0   0.77250E-05   474251.5 3752144.7    470.1     3.49     4.00     3.25
YES    HRDOW
L0000258          0   0.77250E-05   474260.0 3752146.1    470.3     3.49     4.00     3.25
YES    HRDOW
L0000259          0   0.77250E-05   474268.4 3752147.6    470.6     3.49     4.00     3.25
YES    HRDOW
L0000260          0   0.77250E-05   474276.9 3752149.1    470.8     3.49     4.00     3.25
YES    HRDOW
VOL50             0   0.13343E-03   471003.9 3752028.7    513.6     5.00    43.70     1.40
YES    HRDOW
VOL51             0   0.13343E-03   471067.7 3751115.0    519.4     5.00    43.70     1.40
YES    HRDOW
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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  ALL   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   , VOL6   ,
  VOL7   , VOL8   ,

              VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
              VOL15   , VOL16   ,

              VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
              VOL23   , VOL24   ,

              VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
              VOL31   , VOL32   ,

              VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
              VOL39   , VOL40   ,

              VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
              VOL47   , VOL48   ,

              VOL49   , L0000001   , L0000002   , L0000003   , L0000004   , L0000005   ,
              L0000006   , L0000007   ,

              L0000008   , L0000009   , L0000010   , L0000011   , L0000012   , L0000013   ,
              L0000014   , L0000015   ,

              L0000016   , L0000017   , L0000018   , L0000019   , L0000020   , L0000021   ,
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        L0000086   , L0000087   ,

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        L0000094   , L0000095   ,

        L0000096   , L0000097   , L0000098   , L0000099   , L0000100   , L0000101   ,
        L0000102   , L0000103   ,

        L0000104   , L0000105   , L0000106   , L0000107   , L0000108   , L0000109   ,
        L0000110   , L0000111   ,
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                 PAGE 11
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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```
        L0000112   , L0000113   , L0000114   , L0000115   , L0000116   , L0000117   ,
        L0000118   , L0000119   ,

        L0000120   , L0000121   , L0000122   , L0000123   , L0000124   , L0000125   ,
        L0000126   , L0000127   ,

        L0000128   , L0000129   , L0000130   , L0000131   , L0000132   , L0000133   ,
        L0000134   , L0000135   ,

        L0000136   , L0000137   , L0000138   , L0000139   , L0000140   , L0000141   ,
        L0000142   , L0000143   ,

        L0000144   , L0000145   , L0000146   , L0000147   , L0000148   , L0000149   ,
        L0000150   , L0000151   ,

        L0000152   , L0000153   , L0000154   , L0000155   , L0000156   , L0000157   ,
        L0000158   , L0000159   ,

        L0000160   , L0000161   , L0000162   , L0000163   , L0000164   , L0000165   ,
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          L0000166    , L0000167    ,

          L0000168    , L0000169    , L0000170    , L0000171    , L0000172    , L0000173    ,
          L0000174    , L0000175    ,

          L0000176    , L0000177    , L0000178    , L0000179    , L0000180    , L0000181    ,
          L0000182    , L0000183    ,

          L0000184    , L0000185    , L0000186    , L0000187    , L0000188    , L0000189    ,
          L0000190    , L0000191    ,

          L0000192    , L0000193    , L0000194    , L0000195    , L0000196    , L0000197    ,
          L0000198    , L0000199    ,

          L0000200    , L0000201    , L0000202    , L0000203    , L0000204    , L0000205    ,
          L0000206    , L0000207    ,

          L0000208    , L0000209    , L0000210    , L0000211    , L0000212    , L0000213    ,
          L0000214    , L0000215    ,

          L0000216    , L0000217    , L0000218    , L0000219    , L0000220    , L0000221    ,
          L0000222    , L0000223    ,

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          L0000230    , L0000231    ,

          L0000232    , L0000233    , L0000234    , L0000235    , L0000236    , L0000237    ,
          L0000238    , L0000239    ,

          L0000240    , L0000241    , L0000242    , L0000243    , L0000244    , L0000245    ,
          L0000246    , L0000247    ,

          L0000248    , L0000249    , L0000250    , L0000251    , L0000252    , L0000253    ,
          L0000254    , L0000255    ,

          L0000256    , L0000257    , L0000258    , L0000259    , L0000260    , VOL50       ,
          VOL51       ,
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

               PAGE 12
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

          2189641.   VOL1   , VOL2   , VOL3   , VOL4   , VOL5   ,
           VOL6   , VOL7   ,
 VOL8   ,

          VOL9   , VOL10   , VOL11   , VOL12   , VOL13   , VOL14   ,
          VOL15   , VOL16   ,

          VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
          VOL23   , VOL24   ,

          VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
          VOL31   , VOL32   ,

          VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,

```
         VOL39          , VOL40          ,

         VOL41          , VOL42          , VOL43          , VOL44          , VOL45          , VOL46          ,
         VOL47          , VOL48          ,

         VOL49          , L0000001       , L0000002       , L0000003       , L0000004       , L0000005       ,
         L0000006       , L0000007       ,

         L0000008       , L0000009       , L0000010       , L0000011       , L0000012       , L0000013       ,
         L0000014       , L0000015       ,

         L0000016       , L0000017       , L0000018       , L0000019       , L0000020       , L0000021       ,
         L0000022       , L0000023       ,

         L0000024       , L0000025       , L0000026       , L0000027       , L0000028       , L0000029       ,
         L0000030       , L0000031       ,

         L0000032       , L0000033       , L0000034       , L0000035       , L0000036       , L0000037       ,
         L0000038       , L0000039       ,

         L0000040       , L0000041       , L0000042       , L0000043       , L0000044       , L0000045       ,
         L0000046       , L0000047       ,

         L0000048       , L0000049       , L0000050       , L0000051       , L0000052       , L0000053       ,
         L0000054       , L0000055       ,

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         L0000062       , L0000063       ,

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         L0000070       , L0000071       ,

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         L0000078       , L0000079       ,

         L0000080       , L0000081       , L0000082       , L0000083       , L0000084       , L0000085       ,
         L0000086       , L0000087       ,

         L0000088       , L0000089       , L0000090       , L0000091       , L0000092       , L0000093       ,
         L0000094       , L0000095       ,

         L0000096       , L0000097       , L0000098       , L0000099       , L0000100       , L0000101       ,
         L0000102       , L0000103       ,

         L0000104       , L0000105       , L0000106       , L0000107       , L0000108       , L0000109       ,
         L0000110       , L0000111       ,
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------


```
         L0000112       , L0000113       , L0000114       , L0000115       , L0000116       , L0000117       ,
         L0000118       , L0000119       ,

         L0000120       , L0000121       , L0000122       , L0000123       , L0000124       , L0000125       ,
         L0000126       , L0000127       ,
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```
        L0000128      , L0000129      , L0000130      , L0000131      , L0000132      , L0000133      ,
        L0000134      , L0000135      ,

        L0000136      , L0000137      , L0000138      , L0000139      , L0000140      , L0000141      ,
        L0000142      , L0000143      ,

        L0000144      , L0000145      , L0000146      , L0000147      , L0000148      , L0000149      ,
        L0000150      , L0000151      ,

        L0000152      , L0000153      , L0000154      , L0000155      , L0000156      , L0000157      ,
        L0000158      , L0000159      ,

        L0000160      , L0000161      , L0000162      , L0000163      , L0000164      , L0000165      ,
        L0000166      , L0000167      ,

        L0000168      , L0000169      , L0000170      , L0000171      , L0000172      , L0000173      ,
        L0000174      , L0000175      ,

        L0000176      , L0000177      , L0000178      , L0000179      , L0000180      , L0000181      ,
        L0000182      , L0000183      ,

        L0000184      , L0000185      , L0000186      , L0000187      , L0000188      , L0000189      ,
        L0000190      , L0000191      ,

        L0000192      , L0000193      , L0000194      , L0000195      , L0000196      , L0000197      ,
        L0000198      , L0000199      ,

        L0000200      , L0000201      , L0000202      , L0000203      , L0000204      , L0000205      ,
        L0000206      , L0000207      ,

        L0000208      , L0000209      , L0000210      , L0000211      , L0000212      , L0000213      ,
        L0000214      , L0000215      ,

        L0000216      , L0000217      , L0000218      , L0000219      , L0000220      , L0000221      ,
        L0000222      , L0000223      ,

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        L0000230      , L0000231      ,

        L0000232      , L0000233      , L0000234      , L0000235      , L0000236      , L0000237      ,
        L0000238      , L0000239      ,

        L0000240      , L0000241      , L0000242      , L0000243      , L0000244      , L0000245      ,
        L0000246      , L0000247      ,

        L0000248      , L0000249      , L0000250      , L0000251      , L0000252      , L0000253      ,
        L0000254      , L0000255      ,

        L0000256      , L0000257      , L0000258      , L0000259      , L0000260      , VOL50         ,
        VOL51         ,
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

```
 - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                               ***       11:38:46
```

```
                     PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL2         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR    HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                               ***       11:38:46
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                     PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL3        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = VOL4        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
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```
      .0000E+00   23  .0000E+00   24  .0000E+00
[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                           ***         11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL5         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                           ***         11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL6         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14

```
     .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL9        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
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🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL10       ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔢 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL11   ; SOURCE TYPE = VOLUME   :
```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔢 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▦ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
            .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = VOL16        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = VOL17        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
```

```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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                 PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL25        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL26        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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*** MODELOPTs:     RegDFAULT  CONC  ELEV   URBAN  ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *


 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs:     RegDFAULT  CONC  ELEV   URBAN  ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *


 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL31   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
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        .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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```
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *
```

```
SOURCE ID = VOL35      ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = VOL36      ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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                      PAGE  50
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL39   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL40   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL41   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

◨◨ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL46   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

◨◨ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🏴 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

🏴 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL49   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

```
 SOURCE ID = L0000001     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

```
 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
     SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000003   ; SOURCE TYPE = VOLUME   :
```
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000004   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000005   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000006   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                   PAGE 69
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000007   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  70
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000008    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  71
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000009    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000010   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000011    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:38:46


                  PAGE   74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000012    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
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                    PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000013    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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                    PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000014    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000015   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000016   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
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  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00

▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        11:38:46


                  PAGE  79
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000017    ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00

▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        11:38:46


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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000018    ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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 - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                      PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000019     ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                      PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000020    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                   PAGE 83
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000021    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        11:38:46


                    PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        11:38:46


                    PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000024    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000025    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000026   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000027   ; SOURCE TYPE = VOLUME   :

```
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🆙 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = L0000028    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🆙 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000029   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000030   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000031   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000032   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
```

```
        .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000033   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                         DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000034   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY

```
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .1000E+01    10   .1000E+01    11   .1000E+01    12   .1000E+01    13   .1000E+01    14
   .1000E+01    15   .1000E+01    16   .1000E+01
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
                                        DAY OF WEEK = SATURDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
                                        DAY OF WEEK = SUNDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000035   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .1000E+01    10   .1000E+01    11   .1000E+01    12   .1000E+01    13   .1000E+01    14
   .1000E+01    15   .1000E+01    16   .1000E+01
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
                                        DAY OF WEEK = SATURDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
                                        DAY OF WEEK = SUNDAY
    1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
    9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
   17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
   .0000E+00    23   .0000E+00    24   .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = L0000036   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000037   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000038   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000039   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000040   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 103
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000041   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🖵🖵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                      PAGE 104
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = L0000042    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🖵🖵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                      PAGE 105
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = L0000043    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                    PAGE 106
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000044   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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*** MODELOPTs:     RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000045    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs:     RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000046    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                       PAGE 109
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000047   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
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                       PAGE 110
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000048   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
        .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
**FF** *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46


                   PAGE 111
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000049   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
**FF** *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000050    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▟▟ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = L0000051   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▟▟ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = L0000052    ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR
  SCALAR   HOUR  SCALAR   HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000053    ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR  SCALAR   HOUR
  SCALAR   HOUR  SCALAR   HOUR  SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *


SOURCE ID = L0000054    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** AERMET - VERSION  16216 ***
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *


SOURCE ID = L0000055    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000056   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000057   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY

```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
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🯧🯧 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000058   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00

🯧🯧 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000059   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                              DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000060   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                              DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 123
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000061   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 🄵🄿 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000062   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000063   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                        PAGE 126
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000064   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000065   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000066   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000067   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000068   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                 PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000069    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = L0000070   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = L0000071   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
                         .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000072   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 135
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000073   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00     10  .0000E+00     11  .0000E+00     12  .0000E+00     13  .0000E+00     14
    .0000E+00     15  .0000E+00     16  .0000E+00
   17  .0000E+00     18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
    .0000E+00     23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00      2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
    .0000E+00      7  .0000E+00      8  .0000E+00
    9  .0000E+00     10  .0000E+00     11  .0000E+00     12  .0000E+00     13  .0000E+00     14
    .0000E+00     15  .0000E+00     16  .0000E+00
   17  .0000E+00     18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
    .0000E+00     23  .0000E+00     24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000074    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00      2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
    .0000E+00      7  .0000E+00      8  .0000E+00
    9  .1000E+01     10  .1000E+01     11  .1000E+01     12  .1000E+01     13  .1000E+01     14
    .1000E+01     15  .1000E+01     16  .1000E+01
   17  .0000E+00     18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
    .0000E+00     23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00      2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
    .0000E+00      7  .0000E+00      8  .0000E+00
    9  .0000E+00     10  .0000E+00     11  .0000E+00     12  .0000E+00     13  .0000E+00     14
    .0000E+00     15  .0000E+00     16  .0000E+00
   17  .0000E+00     18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
    .0000E+00     23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00      2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
    .0000E+00      7  .0000E+00      8  .0000E+00
    9  .0000E+00     10  .0000E+00     11  .0000E+00     12  .0000E+00     13  .0000E+00     14
    .0000E+00     15  .0000E+00     16  .0000E+00
   17  .0000E+00     18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
    .0000E+00     23  .0000E+00     24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                  PAGE 137
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000075     ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00      2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 138
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

```
 SOURCE ID = L0000076    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 139
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

```
SOURCE ID = L0000077    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                   PAGE 140
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000078    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000079   ; SOURCE TYPE = VOLUME  :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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                     PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000080   ; SOURCE TYPE = VOLUME  :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000081   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                   PAGE 144
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000082   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

```
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46


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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000083    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  PAGE 146
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000084   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
```

```
      - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                   PAGE 147
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000085   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                   PAGE 148
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
       .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000088   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                         ***        11:38:46

                    PAGE 151
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000089    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE 152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000090    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000091    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

 ▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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```
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000092    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

 ▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000093    ; SOURCE TYPE = VOLUME   :
```

```
   HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000094   ; SOURCE TYPE = VOLUME   :

```
   HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000095   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000096   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

`FF` *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 159
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000097   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

`FF` *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 160
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000098   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE 161
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000099     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE 162
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000100     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                              DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                              DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000101   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                              DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                              DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                           (HRDOW) *

 SOURCE ID = L0000102    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000103    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000104   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 167
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000105   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                 PAGE 168
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000106   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▣▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                 PAGE 169
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000107   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000108    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000109    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

- -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000110   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = L0000111    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
🆔 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***         11:38:46


                    PAGE 174
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = L0000112    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:38:46
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000113   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***       11:38:46
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000114   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000115   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:38:46

                       PAGE 178
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000116    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

 ⫸ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000117     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

 ⫸ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *
```

```
SOURCE ID = L0000118    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000119    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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                    PAGE 182
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000120    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
 ▨ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** AERMET - VERSION  16216 ***
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000121    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
        .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
        .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
        .0000E+00   23  .0000E+00   24  .0000E+00
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▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000122   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
        .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
        .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
        .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
        .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
        .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
        .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
        .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
        .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
        .0000E+00   23 .0000E+00   24 .0000E+00

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 185
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000123   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
        .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
        .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
        .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000124   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000125   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - - -

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000126   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000127    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🄵🄿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000128    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

◳◳ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000129   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

◳◳ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000130   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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⌷⌷ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000131   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
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⌷⌷ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***       11:38:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000132    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000133    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000134    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
```

```
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                    PAGE 197
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000135   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = L0000136   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = L0000137   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
        .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000138   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
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Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000139   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
```

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000140     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000141     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 204
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000142   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                              DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 205
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000143    ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000144    ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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                    PAGE 207
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000145    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
 ▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***        10/30/23
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                    PAGE 208
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000146    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000147   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000148   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00

▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***          10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46

                  PAGE 211
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000149    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00

▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***          10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46

                  PAGE 212
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000150    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

```
  -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
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🏴 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:38:46

                     PAGE 213
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000151   ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
🏴 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000152    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000153    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

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       .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000154    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000155    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
 .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SUNDAY
  1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
  .0000E+00    7   .0000E+00    8   .0000E+00
  9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
  .0000E+00   15   .0000E+00   16   .0000E+00
 17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
 .0000E+00   23   .0000E+00   24   .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000156   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
  .0000E+00   7   .0000E+00   8   .0000E+00
  9   .1000E+01   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
  .1000E+01   15   .1000E+01   16   .1000E+01
 17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
 .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SATURDAY
  1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
  .0000E+00   7   .0000E+00   8   .0000E+00
  9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
  .0000E+00   15   .0000E+00   16   .0000E+00
 17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
 .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SUNDAY
  1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
  .0000E+00   7   .0000E+00   8   .0000E+00
  9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
  .0000E+00   15   .0000E+00   16   .0000E+00
 17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
 .0000E+00   23   .0000E+00   24   .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000157   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
  .0000E+00   7   .0000E+00   8   .0000E+00
  9   .1000E+01   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
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```
     .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 220
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000158   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 221
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000159   ; SOURCE TYPE = VOLUME   :

```
HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR    HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = L0000160    ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR    HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = L0000161   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

SOURCE ID = L0000162   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000163   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000164   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

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    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 227
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000165    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 228
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000166    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
```

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   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 229
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000167   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 230
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = L0000168   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                  PAGE 231
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000169   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000170   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▣▣ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000171   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

```
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000172    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▮▮ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000173    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▪▪ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000174   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▪▪ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000175   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000176   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000177    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***          11:38:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000178    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
```

                      PAGE 241
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000179   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
```

                      PAGE 242
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000180   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000181   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 244
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000182   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
```

```
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

 ■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000183   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                 DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

 ■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = L0000184    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = L0000185    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

 ***   ***   11:38:46
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                 PAGE 248
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000186     ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
 ▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                        ***        11:38:46

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000187     ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 250
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000188   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 251
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000189   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
```

```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 252
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = L0000190   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 253
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = L0000191   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 254
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000192   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                    DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 255
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000193    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000194    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                       PAGE 257
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000195   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                       PAGE 258
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000196   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                   PAGE 259
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000197   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                   PAGE 260
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000198   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                     PAGE 261
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000199     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                     PAGE 262
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000200     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  PAGE 263
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000201   ; SOURCE TYPE = VOLUME   :

```
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000202   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000203   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
        .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 266
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000204   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```

██ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:38:46


                    PAGE 267
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000205     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000206    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000207    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
 SOURCE ID = L0000208    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = L0000209    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = L0000210    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000211    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000212    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⌕⌕ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000213   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⌕⌕ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000214   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000215   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000216   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▫▫ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000217   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

▫▫ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 280
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                       (HRDOW) *

 SOURCE ID = L0000218    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

```
                       * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                       (HRDOW) *

 SOURCE ID = L0000219    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

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    .0000E+00   23  .0000E+00   24  .0000E+00
▐▐ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        11:38:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000220    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▐▐ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        11:38:46

                  PAGE 283
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000221    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 284
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000222    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 285
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000223    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
     .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000224   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000225   ; SOURCE TYPE = VOLUME   :

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  PAGE 288
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *


 SOURCE ID = L0000226    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000227   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000228   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000229   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000230   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000231   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```
                                   DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```
                                   DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 294
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000232   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY

```
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 295

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000233   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

 SOURCE ID = L0000234   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

                    PAGE 297
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = L0000235   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

                       PAGE 298
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000236   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                       PAGE 299
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000237   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 300
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000238   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 301
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000239   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000240    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000241    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- -
- -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000242   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000243    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:38:46


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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000244    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .00D00E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
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                   PAGE 307
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000245    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

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                   PAGE 308
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000246    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
```

```
         .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
     .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000247   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                    PAGE 310
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000248   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 ⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000249   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

 ⊞⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000250    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                   PAGE 313
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000251    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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                  PAGE 314
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000252    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** AERMET - VERSION  16216 ***
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                  PAGE 315
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000253    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000254   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                   DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000255   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                   DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
⚏ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000256   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
⚏ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000257   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000258   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000259    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
   SCALAR    HOUR   SCALAR   HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000260    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
   SCALAR    HOUR   SCALAR   HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL50   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL51   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

🔢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                     PAGE 325
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                            *** DISCRETE CARTESIAN RECEPTORS ***
                           (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)


  ( 472283.7, 3752641.0,     492.6,      492.6,        0.0);        ( 472482.2, 3752398.0,
    499.3,      499.3,       0.0);
  ( 472478.0, 3752183.1,     505.1,      505.1,        0.0);        ( 472148.1, 3752531.5,
    495.2,      502.0,       0.0);
  ( 472052.1, 3752531.2,     499.4,      512.0,        0.0);        ( 471975.5, 3752531.2,
    500.5,      514.0,       0.0);
  ( 471896.1, 3752530.9,     503.4,      513.0,        0.0);        ( 471840.8, 3752529.9,
    503.4,      513.0,       0.0);
  ( 471816.6, 3752527.1,     500.6,      513.0,        0.0);        ( 471736.8, 3752557.9,
    501.5,      501.5,       0.0);
  ( 471696.6, 3752558.9,     500.0,      500.0,        0.0);        ( 471627.3, 3752556.2,
    501.9,      512.0,       0.0);
  ( 471584.6, 3752556.8,     504.5,      507.0,        0.0);        ( 471560.0, 3752556.2,
    504.6,      507.0,       0.0);
  ( 471534.3, 3752554.9,     503.2,      509.0,        0.0);        ( 471514.9, 3752554.9,
    502.2,      519.0,       0.0);
  ( 471486.8, 3752555.7,     503.1,      503.1,        0.0);        ( 471465.7, 3752555.4,
    503.1,      503.1,       0.0);
  ( 471442.2, 3752555.0,     501.3,      505.0,        0.0);        ( 471419.7, 3752552.5,
    500.3,      505.0,       0.0);
  ( 471394.2, 3752552.9,     501.4,      501.4,        0.0);        ( 471363.4, 3752552.5,
    503.5,      503.5,       0.0);
  ( 471332.7, 3752553.3,     505.8,      505.8,        0.0);        ( 471307.6, 3752552.9,
    506.9,      506.9,       0.0);
  ( 471284.0, 3752552.7,     506.2,      506.2,        0.0);        ( 471262.0, 3752552.7,
    505.7,      505.7,       0.0);
  ( 471241.9, 3752552.7,     505.6,      505.6,        0.0);        ( 471223.1, 3752552.9,
    505.9,      505.9,       0.0);
  ( 471205.9, 3752552.9,     506.2,      506.2,        0.0);        ( 471173.2, 3752552.4,
    506.5,      506.5,       0.0);
  ( 471135.7, 3752552.5,     506.1,      506.1,        0.0);        ( 471093.2, 3752551.5,
    505.4,      505.4,       0.0);
  ( 471059.4, 3752551.7,     504.7,      504.7,        0.0);        ( 471020.5, 3752551.2,
    503.1,      503.1,       0.0);
  ( 470981.0, 3752563.6,     502.1,      502.1,        0.0);        ( 470980.4, 3752552.2,
    502.5,      502.5,       0.0);
  ( 470980.1, 3752535.6,     503.0,      503.0,        0.0);        ( 470979.9, 3752517.2,
    503.7,      503.7,       0.0);
  ( 470980.1, 3752499.8,     504.0,      504.0,        0.0);        ( 470980.2, 3752479.8,
    504.0,      504.0,       0.0);
  ( 470980.4, 3752459.4,     504.6,      504.6,        0.0);        ( 470980.2, 3752433.2,
    505.4,      505.4,       0.0);
  ( 470980.1, 3752404.0,     506.0,      506.0,        0.0);        ( 470927.1, 3752402.7,
    504.9,      504.9,       0.0);
  ( 470907.9, 3752402.7,     503.1,      503.1,        0.0);        ( 470887.3, 3752402.7,
    500.9,      505.0,       0.0);
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( 470869.7, 3752402.0,    500.7,    500.7,    0.0);    ( 470849.6, 3752401.9,
500.3,    500.3,    0.0);
( 470829.4, 3752402.2,    500.0,    500.0,    0.0);    ( 470811.6, 3752402.2,
499.7,    499.7,    0.0);
( 470791.5, 3752402.5,    499.2,    499.2,    0.0);    ( 470773.6, 3752401.9,
498.6,    498.6,    0.0);
( 470749.2, 3752402.2,    497.8,    497.8,    0.0);    ( 470727.7, 3752391.7,
497.8,    497.8,    0.0);
( 470733.0, 3752339.0,    499.9,    499.9,    0.0);    ( 470733.7, 3752320.5,
500.2,    500.2,    0.0);
( 470734.2, 3752291.0,    500.8,    500.8,    0.0);    ( 470733.2, 3752265.8,
500.8,    500.8,    0.0);
( 470732.9, 3752218.8,    501.2,    501.2,    0.0);    ( 470732.5, 3752182.1,
501.8,    501.8,    0.0);
( 470732.4, 3752145.3,    503.0,    503.0,    0.0);    ( 470692.4, 3752144.8,
502.5,    502.5,    0.0);
( 470670.1, 3752144.5,    502.1,    502.1,    0.0);    ( 470651.7, 3752144.3,
502.0,    502.0,    0.0);
( 470633.5, 3752144.1,    501.5,    501.5,    0.0);    ( 470615.5, 3752144.0,
500.9,    500.9,    0.0);
( 470596.0, 3752143.3,    500.2,    500.2,    0.0);    ( 470577.0, 3752143.5,
500.0,    500.0,    0.0);
( 470553.6, 3752143.5,    499.7,    499.7,    0.0);    ( 470528.6, 3752142.6,
498.8,    498.8,    0.0);
( 470508.0, 3752142.8,    497.6,    497.6,    0.0);    ( 470485.6, 3752142.5,
496.3,    496.3,    0.0);
( 470471.6, 3752131.6,    496.1,    496.1,    0.0);    ( 470471.6, 3752109.2,
497.3,    497.3,    0.0);
( 470471.3, 3752085.2,    498.1,    498.1,    0.0);    ( 470471.5, 3752037.7,
499.7,    499.7,    0.0);
( 470471.7, 3752013.0,    500.0,    500.0,    0.0);    ( 470470.9, 3751987.2,
500.1,    500.1,    0.0);
( 470470.9, 3751965.7,    500.1,    500.1,    0.0);    ( 470470.8, 3751944.4,
500.1,    500.1,    0.0);
( 470470.6, 3751924.3,    499.6,    499.6,    0.0);    ( 470470.5, 3751905.9,
499.0,    499.0,    0.0);
( 470470.9, 3751884.1,    499.1,    499.1,    0.0);    ( 470470.6, 3751864.0,
498.6,    498.6,    0.0);
( 470470.3, 3751844.0,    497.9,    497.9,    0.0);    ( 470470.2, 3751824.5,
496.6,    496.6,    0.0);
( 470470.3, 3751805.8,    495.7,    499.0,    0.0);    ( 470470.3, 3751788.0,
495.1,    502.0,    0.0);
( 470470.3, 3751761.2,    497.6,    497.6,    0.0);    ( 470471.0, 3751741.9,
499.5,    499.5,    0.0);
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FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

            PAGE 326
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        *** DISCRETE CARTESIAN RECEPTORS ***
                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                    (METERS)

```
( 470470.0, 3751722.8,    501.4,    501.4,    0.0);    ( 470470.2, 3751703.4,
503.3,    503.3,    0.0);
( 470470.2, 3751683.8,    504.9,    504.9,    0.0);    ( 470470.3, 3751664.3,
506.2,    506.2,    0.0);
( 470470.3, 3751642.4,    507.6,    507.6,    0.0);    ( 470470.5, 3751621.8,
508.5,    508.5,    0.0);
( 470470.2, 3751599.8,    509.0,    509.0,    0.0);    ( 470470.6, 3751578.8,
509.1,    509.1,    0.0);
( 470469.6, 3751555.9,    507.6,    507.6,    0.0);    ( 470470.0, 3751512.5,
504.8,    512.0,    0.0);
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( 470468.6, 3751414.6,    501.8,    513.0,    0.0);    ( 470469.8, 3751385.2,
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( 470468.6, 3751358.9,    509.6,    509.6,    0.0);    ( 470462.9, 3751325.6,
511.9,    511.9,    0.0);
( 470462.0, 3751310.6,    512.6,    512.6,    0.0);    ( 470462.6, 3751296.6,
512.4,    512.4,    0.0);
( 470462.6, 3751283.3,    512.0,    512.0,    0.0);    ( 470462.6, 3751269.9,
511.1,    511.1,    0.0);
( 470462.9, 3751254.3,    509.6,    512.0,    0.0);    ( 470462.0, 3751240.7,
508.9,    508.9,    0.0);
( 470463.2, 3751227.6,    509.4,    509.4,    0.0);    ( 470756.4, 3751290.6,
507.7,    525.0,    0.0);
( 470797.7, 3751268.3,    507.7,    525.0,    0.0);    ( 470891.2, 3751226.4,
512.0,    512.0,    0.0);
( 470940.8, 3751191.8,    512.1,    512.1,    0.0);    ( 471000.6, 3750923.6,
523.8,    523.8,    0.0);
( 471029.3, 3750923.6,    523.7,    523.7,    0.0);    ( 471056.3, 3750923.9,
524.2,    542.0,    0.0);
( 471077.9, 3750924.4,    524.8,    543.0,    0.0);    ( 471097.6, 3750924.4,
525.7,    543.0,    0.0);
( 471118.2, 3750925.0,    528.0,    543.0,    0.0);    ( 471139.0, 3750927.4,
529.8,    543.0,    0.0);
( 471160.1, 3750928.8,    530.8,    543.0,    0.0);    ( 471181.1, 3750931.5,
532.3,    543.0,    0.0);
( 471201.7, 3750930.9,    533.3,    543.0,    0.0);    ( 471222.5, 3750931.5,
533.7,    543.0,    0.0);
( 471244.1, 3750931.2,    534.8,    543.0,    0.0);    ( 471264.4, 3750931.7,
535.7,    538.0,    0.0);
( 471284.4, 3750931.7,    536.5,    536.5,    0.0);    ( 471305.8, 3750931.7,
536.5,    536.5,    0.0);
( 471324.7, 3750930.9,    535.8,    535.8,    0.0);    ( 471343.0, 3750930.1,
534.9,    534.9,    0.0);
( 471363.9, 3750929.0,    534.7,    534.7,    0.0);    ( 471382.0, 3750928.8,
534.8,    534.8,    0.0);
( 471400.9, 3750928.2,    535.0,    535.0,    0.0);    ( 471421.1, 3750928.0,
535.4,    535.4,    0.0);
( 471440.6, 3750928.1,    535.6,    535.6,    0.0);    ( 471461.8, 3750927.4,
535.7,    535.7,    0.0);
( 471479.8, 3750927.9,    535.9,    535.9,    0.0);    ( 471499.7, 3750927.6,
536.2,    536.2,    0.0);
( 471519.3, 3750928.8,    536.6,    549.0,    0.0);    ( 471537.0, 3750929.6,
538.0,    549.0,    0.0);
( 471556.8, 3750930.9,    539.6,    549.0,    0.0);    ( 471580.7, 3750934.1,
541.7,    549.0,    0.0);
( 471624.0, 3750940.2,    545.0,    549.0,    0.0);    ( 471795.9, 3750950.1,
548.4,    548.4,    0.0);
( 471796.3, 3750967.9,    547.3,    547.3,    0.0);    ( 471796.7, 3750987.2,
545.3,    547.0,    0.0);
( 471797.5, 3751006.8,    542.7,    549.0,    0.0);    ( 471796.7, 3751025.3,
542.0,    547.0,    0.0);
( 471795.9, 3751046.4,    541.1,    541.1,    0.0);    ( 471796.7, 3751073.0,
540.1,    540.1,    0.0);
( 471797.5, 3751143.8,    537.7,    537.7,    0.0);    ( 471833.0, 3751143.8,
537.0,    537.0,    0.0);
( 471867.4, 3751144.0,    534.9,    534.9,    0.0);    ( 471891.0, 3751144.4,
532.9,    532.9,    0.0);
( 471916.6, 3751144.2,    530.9,    530.9,    0.0);    ( 471939.5, 3751144.2,
529.4,    529.4,    0.0);
( 471963.1, 3751144.4,    525.8,    535.0,    0.0);    ( 471984.2, 3751144.0,
524.4,    533.0,    0.0);
( 471999.0, 3751163.4,    525.3,    536.0,    0.0);    ( 472000.2, 3751199.1,
530.8,    530.8,    0.0);
( 471999.8, 3751230.6,    532.9,    532.9,    0.0);    ( 472000.4, 3751251.5,
534.3,    534.3,    0.0);
( 472000.2, 3751281.1,    536.2,    536.2,    0.0);    ( 472002.0, 3751347.9,
537.0,    537.0,    0.0);
```

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( 472036.9, 3751348.5,     536.6,     536.6,     0.0);     ( 472063.1, 3751349.3,
536.5,     536.5,     0.0);
( 472084.6, 3751348.3,     535.8,     535.8,     0.0);     ( 472104.9, 3751348.7,
534.6,     534.6,     0.0);
( 472127.3, 3751348.5,     533.0,     533.0,     0.0);     ( 472150.8, 3751349.7,
531.4,     531.4,     0.0);
( 472171.5, 3751349.5,     530.3,     530.3,     0.0);     ( 472194.1, 3751349.1,
528.2,     531.0,     0.0);
( 472222.6, 3751348.7,     525.4,     536.0,     0.0);     ( 472247.8, 3751349.5,
523.2,     536.0,     0.0);
( 472269.7, 3751349.1,     520.9,     536.0,     0.0);     ( 472290.4, 3751350.3,
520.7,     535.0,     0.0);
( 472313.6, 3751350.5,     520.9,     532.0,     0.0);     ( 472333.8, 3751351.3,
520.6,     532.0,     0.0);
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FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
***   ***   11:38:46

                    PAGE 327
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
( 472354.8, 3751351.3,     518.5,     532.0,     0.0);     ( 472377.7, 3751351.1,
516.0,     532.0,     0.0);
( 472401.7, 3751351.1,     513.6,     533.0,     0.0);     ( 472425.5, 3751351.8,
511.8,     532.0,     0.0);
( 472445.7, 3751350.7,     511.1,     532.0,     0.0);     ( 472463.2, 3751350.9,
509.4,     532.0,     0.0);
( 472484.1, 3751350.9,     507.3,     532.0,     0.0);     ( 472503.9, 3751351.3,
506.3,     532.0,     0.0);
( 472523.8, 3751351.3,     506.2,     531.0,     0.0);     ( 472543.3, 3751351.3,
506.4,     506.4,     0.0);
( 472563.2, 3751352.2,     506.1,     506.1,     0.0);     ( 472582.6, 3751352.0,
505.8,     505.8,     0.0);
( 472601.3, 3751352.0,     505.3,     505.3,     0.0);     ( 472606.8, 3751367.3,
504.3,     504.3,     0.0);
( 472607.6, 3751396.4,     504.2,     504.2,     0.0);     ( 472608.5, 3751432.1,
505.0,     505.0,     0.0);
( 472608.9, 3751462.6,     504.4,     504.4,     0.0);     ( 472609.5, 3751497.1,
505.0,     505.0,     0.0);
( 472610.7, 3751553.8,     505.4,     505.4,     0.0);     ( 472666.0, 3751554.0,
501.3,     501.3,     0.0);
( 472690.4, 3751553.6,     499.8,     499.8,     0.0);     ( 472713.5, 3751554.3,
499.2,     499.2,     0.0);
( 472734.6, 3751554.0,     497.9,     497.9,     0.0);     ( 472759.5, 3751554.0,
496.2,     496.2,     0.0);
( 472781.8, 3751554.5,     494.9,     499.0,     0.0);     ( 472849.8, 3751556.1,
495.4,     495.4,     0.0);
( 472871.8, 3751556.1,     494.9,     494.9,     0.0);     ( 472895.2, 3751555.6,
494.2,     494.2,     0.0);
( 472922.6, 3751555.9,     493.8,     493.8,     0.0);     ( 473092.4, 3751802.3,
486.1,     486.1,     0.0);
( 473204.8, 3751856.8,     481.6,     481.6,     0.0);     ( 472991.2, 3752083.3,
484.1,     484.1,     0.0);
( 473295.1, 3752052.5,     478.7,     478.7,     0.0);     ( 473356.8, 3752050.3,
476.8,     476.8,     0.0);
( 473495.1, 3751996.6,     476.0,     476.0,     0.0);     ( 473486.5, 3751917.7,
475.8,     475.8,     0.0);
( 473392.6, 3752058.2,     475.9,     475.9,     0.0);     ( 473464.3, 3752082.6,
475.2,     475.2,     0.0);
( 473550.3, 3752087.6,     473.0,     473.0,     0.0);     ( 473584.7, 3752089.8,
473.0,     473.0,     0.0);
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( 472765.6, 3752474.1,     477.2,     495.0,       0.0);        ( 470432.2, 3750483.9,
  532.6,      532.6,        0.0);
( 469244.1, 3754182.8,     471.3,     485.0,       0.0);        ( 469596.8, 3750785.6,
  493.4,      493.4,        0.0);
( 470466.5, 3750530.3,     535.0,     535.0,       0.0);        ( 469319.3, 3749244.5,
  500.0,      500.0,        0.0);
( 469229.6, 3749502.2,     503.4,     503.4,       0.0);        ( 468465.4, 3749582.3,
  490.5,      490.5,        0.0);
( 471438.4, 3750129.8,     539.2,     539.2,       0.0);        ( 471657.5, 3749918.8,
  535.4,      535.4,        0.0);
( 471732.9, 3749916.5,     534.7,     534.7,       0.0);        ( 471710.3, 3750132.8,
  537.0,      537.0,        0.0);
( 471273.9, 3750119.8,     540.5,     540.5,
  0.0);
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▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:38:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                          (1=YES; 0=NO)

     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
     1   1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                          *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                          ***
                                          (METERS/SEC)

                                1.54,   3.09,   5.14,   8.23, 10.80,
```

▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                    ***      11:38:46

                        PAGE 329
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***


    Surface file:
    KRAL_V9_ADJU\KRAL_v9.SFC                                             Met
    Version:  16216
    Profile file:
    KRAL_V9_ADJU\KRAL_v9.PFL

```
First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:38:46

                    PAGE 330
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL        ***
                                   INCLUDING SOURCE(S):     VOL1          , VOL2         ,
                                      VOL3         ,  VOL4         , VOL5        ,
                    VOL6        , VOL7         , VOL8         , VOL9         , VOL10         ,
                    VOL11       , VOL12        , VOL13        ,
                    VOL14       , VOL15        , VOL16        , VOL17        , VOL18         ,
                    VOL19       , VOL20        , VOL21        ,
                    VOL22       , VOL23        , VOL24        , VOL25        , VOL26         ,
                    VOL27       , VOL28        ,  . . .       ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF DPM       IN
                              MICROGRAMS/M**3                              **

      X-COORD (M)   Y-COORD (M)      CONC                    X-COORD (M)   Y-COORD
      (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
       472283.74   3752640.98      0.00032                  472482.23
       3752398.04       0.00063
       472477.97   3752183.12      0.00104                  472148.10
       3752531.53       0.00061
       472052.12   3752531.22      0.00071                  471975.52
       3752531.22       0.00077
       471896.06   3752530.90      0.00079                  471840.76
       3752529.94       0.00081
       471816.60   3752527.08      0.00082                  471736.82
       3752557.91       0.00068
       471696.59   3752558.87      0.00068                  471627.29
       3752556.22       0.00071
       471584.60   3752556.76      0.00071                  471560.01
       3752556.22       0.00071
       471534.35   3752554.87      0.00071                  471514.89
       3752554.87       0.00070
       471486.79   3752555.68      0.00068                  471465.72
       3752555.41       0.00068
       471442.21   3752554.98      0.00067                  471419.71
       3752552.46       0.00067
       471394.22   3752552.91      0.00066                  471363.44
       3752552.46       0.00066
       471332.68   3752553.31      0.00065                  471307.62
       3752552.94       0.00065
       471284.05   3752552.70      0.00065                  471261.98
       3752552.70       0.00065
       471241.90   3752552.70      0.00064                  471223.15
       3752552.86       0.00064
       471205.90   3752552.86      0.00064                  471173.21
       3752552.37       0.00065
       471135.70   3752552.53      0.00063                  471093.22
       3752551.54       0.00060
       471059.37   3752551.70      0.00055                  471020.54
```

```
         3752551.20         0.00048
470981.05    3752563.65        0.00038                    470980.39
         3752552.20         0.00041
470980.06    3752535.61        0.00045                    470979.89
         3752517.19         0.00051
470980.06    3752499.76        0.00059                    470980.22
         3752479.85         0.00069
470980.39    3752459.44        0.00082                    470980.22
         3752433.22         0.00099
470980.06    3752404.02        0.00114                    470927.12
         3752402.69         0.00063
470907.87    3752402.69        0.00055                    470887.30
         3752402.69         0.00048
470869.71    3752402.03        0.00043                    470849.63
         3752401.86         0.00039
470829.39    3752402.19        0.00035                    470811.63
         3752402.19         0.00033
470791.55    3752402.53        0.00030                    470773.63
         3752401.86         0.00029
470749.24    3752402.19        0.00026                    470727.72
         3752391.74         0.00025
470733.04    3752338.97        0.00028                    470733.70
         3752320.55         0.00029
470734.20    3752291.01        0.00031                    470733.20
         3752265.78         0.00032
470732.87    3752218.81        0.00034                    470732.54
         3752182.14         0.00036
470732.37    3752145.29        0.00038                    470692.38
         3752144.80         0.00033
470670.14    3752144.46        0.00031                    470651.72
         3752144.30         0.00029
470633.46    3752144.13        0.00027                    470615.54
         3752143.97         0.00026
470595.95    3752143.30        0.00025                    470577.03
         3752143.47         0.00023
470553.63    3752143.47        0.00022                    470528.57
         3752142.64         0.00021
470507.99    3752142.80        0.00020                    470485.59
         3752142.47         0.00019
470471.60    3752131.63        0.00018                    470471.60
         3752109.21         0.00019
470471.32    3752085.22        0.00019                    470471.46
         3752037.68         0.00020
470471.74    3752013.00        0.00020                    470470.89
         3751987.18         0.00021
470470.89    3751965.74        0.00021                    470470.75
         3751944.44         0.00021
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

               PAGE 331
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                            INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                            VOL3   , VOL4   , VOL5   ,
            VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
            VOL11   , VOL12   , VOL13   ,
            VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
            VOL19   , VOL20   , VOL21   ,
            VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
            VOL27   , VOL28   , . . .   ,

```
                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                ** CONC OF DPM      IN
                                MICROGRAMS/M**3                                        **

        X-COORD (M)    Y-COORD (M)      CONC                         X-COORD (M)   Y-COORD
        (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
        470470.61    3751924.27     0.00022                        470470.47
        3751905.93        0.00022
        470470.89    3751884.06     0.00022                        470470.61
        3751864.03        0.00022
        470470.33    3751844.00     0.00022                        470470.19
        3751824.53        0.00023
        470470.33    3751805.77     0.00023                        470470.33
        3751788.00        0.00023
        470470.33    3751761.19     0.00023                        470471.03
        3751741.87        0.00023
        470470.05    3751722.82     0.00023                        470470.19
        3751703.36        0.00023
        470470.19    3751683.75     0.00023                        470470.33
        3751664.28        0.00023
        470470.33    3751642.41     0.00024                        470470.47
        3751621.82        0.00024
        470470.19    3751599.81     0.00024                        470470.61
        3751578.79        0.00024
        470469.62    3751555.94     0.00023                        470470.05
        3751512.49        0.00023
        470468.64    3751414.59     0.00023                        470469.76
        3751385.25        0.00023
        470468.65    3751358.95     0.00023                        470462.93
        3751325.56        0.00022
        470461.98    3751310.62     0.00022                        470462.61
        3751296.63        0.00022
        470462.61    3751283.28     0.00022                        470462.61
        3751269.92        0.00022
        470462.93    3751254.35     0.00022                        470461.98
        3751240.67        0.00022
        470463.25    3751227.64     0.00022                        470756.39
        3751290.59        0.00046
        470797.72    3751268.33     0.00052                        470891.19
        3751226.38        0.00076
        470940.78    3751191.82     0.00098                        471000.61
        3750923.63        0.00051
        471029.26    3750923.63     0.00052                        471056.29
        3750923.90        0.00052
        471077.91    3750924.44     0.00051                        471097.64
        3750924.44        0.00050
        471118.18    3750924.98     0.00048                        471138.99
        3750927.42        0.00048
        471160.07    3750928.77     0.00047                        471181.15
        3750931.47        0.00047
        471201.69    3750930.93     0.00047                        471222.50
        3750931.47        0.00046
        471244.13    3750931.20     0.00046                        471264.40
        3750931.74        0.00045
        471284.40    3750931.74     0.00045                        471305.75
        3750931.74        0.00044
        471324.67    3750930.93     0.00044                        471343.05
        3750930.12        0.00043
        471363.86    3750929.04     0.00042                        471381.96
        3750928.77        0.00042
        471400.88    3750928.23     0.00041                        471421.15
        3750927.96        0.00040
        471440.59    3750928.11     0.00039                        471461.83
```

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      3750927.45        0.00038
  471479.76    3750927.95        0.00038                471499.68
      3750927.62        0.00037
  471519.26    3750928.78        0.00036                471537.02
      3750929.61        0.00035
  471556.77    3750930.94        0.00034                471580.68
      3750934.09        0.00034
  471624.00    3750940.23        0.00032                471795.90
      3750950.11        0.00029
  471796.29    3750967.88        0.00030                471796.69
      3750987.22        0.00033
  471797.47    3751006.75        0.00035                471796.69
      3751025.30        0.00038
  471795.90    3751046.40        0.00042                471796.69
      3751072.96        0.00047
  471797.47    3751143.85        0.00065                471833.01
      3751143.85        0.00062
  471867.38    3751144.05        0.00060                471891.02
      3751144.44        0.00059
  471916.60    3751144.24        0.00058                471939.45
      3751144.24        0.00057
  471963.08    3751144.44        0.00056                471984.17
      3751144.05        0.00054
```

```
                            *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                            SOURCE GROUP: ALL      ***
                               INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                                    VOL3       , VOL4       , VOL5       ,
             VOL6       , VOL7       , VOL8      , VOL9       , VOL10       ,
             VOL11      , VOL12      , VOL13      ,
             VOL14      , VOL15      , VOL16      , VOL17      , VOL18       ,
             VOL19      , VOL20      , VOL21      ,
             VOL22      , VOL23      , VOL24      , VOL25      , VOL26       ,
             VOL27      , VOL28      ,  . . .     ,
```

                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                    ** CONC OF DPM   IN
                    MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
471999.02	3751163.38	0.00057	472000.19		
	3751199.12	0.00063			
471999.80	3751230.56	0.00070	472000.38		
	3751251.46	0.00074			
472000.19	3751281.15	0.00081	472001.95		
	3751347.94	0.00097			
472036.90	3751348.52	0.00091	472063.07		
	3751349.31	0.00088			
472084.56	3751348.33	0.00085	472104.87		
	3751348.72	0.00083			
472127.33	3751348.52	0.00081	472150.76		
	3751349.70	0.00079			
472171.47	3751349.50	0.00077	472194.12		
	3751349.11	0.00075			
472222.63	3751348.72	0.00073	472247.83		

```
              3751349.50         0.00071
472269.70     3751349.11         0.00069                    472290.40
              3751350.28         0.00068
472313.64     3751350.48         0.00066                    472333.76
              3751351.26         0.00065
472354.85     3751351.26         0.00064                    472377.70
              3751351.06         0.00063
472401.72     3751351.06         0.00062                    472425.55
              3751351.84         0.00061
472445.67     3751350.67         0.00059                    472463.24
              3751350.87         0.00059
472484.14     3751350.87         0.00058                    472503.87
              3751351.26         0.00057
472523.79     3751351.26         0.00056                    472543.32
              3751351.26         0.00055
472563.24     3751352.24         0.00054                    472582.57
              3751352.04         0.00053
472601.32     3751352.04         0.00052                    472606.79
              3751367.27         0.00054
472607.57     3751396.37         0.00058                    472608.55
              3751432.11         0.00063
472608.94     3751462.58         0.00068                    472609.52
              3751497.15         0.00074
472610.70     3751553.78         0.00089                    472665.97
              3751553.98         0.00086
472690.38     3751553.59         0.00084                    472713.50
              3751554.27         0.00083
472734.64     3751554.04         0.00082                    472759.46
              3751554.04         0.00080
472781.75     3751554.50         0.00079                    472849.76
              3751556.11         0.00074
472871.82     3751556.11         0.00073                    472895.25
              3751555.65         0.00071
472922.60     3751555.88         0.00070                    473092.41
              3751802.31         0.00169
473204.80     3751856.81         0.00176                    472991.21
              3752083.31         0.00167
473295.12     3752052.49         0.00627                    473356.76
              3752050.34         0.00775
473495.10     3751996.58         0.00494                    473486.50
              3751917.74         0.00179
473392.60     3752058.22         0.00632                    473464.28
              3752082.59         0.00373
473550.29     3752087.61         0.00410                    473584.69
              3752089.76         0.00428
472765.59     3752474.09         0.00037                    470432.16
              3750483.93         0.00012
469244.06     3754182.82         0.00003                    469596.75
              3750785.65         0.00008
470466.55     3750530.27         0.00013                    469319.29
              3749244.53         0.00004
469229.64     3749502.19         0.00005                    468465.38
              3749582.33         0.00004
471438.37     3750129.76         0.00009                    471657.54
              3749918.78         0.00007
471732.91     3749916.52         0.00007                    471710.30
              3750132.80         0.00008
471273.89     3750119.77
              0.00009
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                PAGE 333

                                         *** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS
                                         ***

                                ** CONC OF DPM   IN
                                MICROGRAMS/M**3   **

            NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV, ZHILL,
ZFLAG) OF TYPE GRID-ID
- -
- - - - - - - - - - - -

ALL   1ST HIGHEST VALUE IS   0.00775 AT (473356.76, 3752050.34,   476.76,
476.76,   0.00) DC
          2ND HIGHEST VALUE IS   0.00632 AT (473392.60, 3752058.22,   475.95,
          475.95,   0.00) DC
          3RD HIGHEST VALUE IS   0.00627 AT (473295.12, 3752052.49,   478.66,
          478.66,   0.00) DC
          4TH HIGHEST VALUE IS   0.00494 AT (473495.10, 3751996.58,   476.00,
          476.00,   0.00) DC
          5TH HIGHEST VALUE IS   0.00428 AT (473584.69, 3752089.76,   473.00,
          473.00,   0.00) DC
          6TH HIGHEST VALUE IS   0.00410 AT (473550.29, 3752087.61,   472.99,
          472.99,   0.00) DC
          7TH HIGHEST VALUE IS   0.00373 AT (473464.28, 3752082.59,   475.18,
          475.18,   0.00) DC
          8TH HIGHEST VALUE IS   0.00179 AT (473486.50, 3751917.74,   475.81,
          475.81,   0.00) DC
          9TH HIGHEST VALUE IS   0.00176 AT (473204.80, 3751856.81,   481.55,
          481.55,   0.00) DC
          10TH HIGHEST VALUE IS   0.00169 AT (473092.41, 3751802.31,   486.05,
          486.05,   0.00) DC

  *** RECEPTOR TYPES: GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:38:46

                PAGE 334
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   2 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

    ******** FATAL ERROR MESSAGES ********

```
                    ***   NONE   ***


       ********    WARNING MESSAGES    ********
ME W186    4604         MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    4604         MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


       ***********************************
       *** AERMOD Finishes Successfully ***
       ***********************************
```

```
** Lakes Environmental AERMOD MPI
**
*****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/30/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064-15 Cons HRA Unmit\14064-15
Cons HRA Unmit.ADI
**
*****************************************
**
**
*****************************************
** AERMOD Control Pathway
*****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14064-15 Cons HRA Unmit.err"
CO FINISHED
**
*****************************************
** AERMOD Source Pathway
*****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1          VOLUME     471175.473  3752366.407      510.210
   LOCATION VOL2          VOLUME     471362.212  3752367.600      512.450
   LOCATION VOL3          VOLUME     471550.136  3752368.393      518.920
   LOCATION VOL4          VOLUME     471609.606  3752371.565      516.010
   LOCATION VOL5          VOLUME     471796.736  3752342.227      515.100
   LOCATION VOL6          VOLUME     471984.660  3752344.605      513.590
   LOCATION VOL7          VOLUME     472003.690  3752346.984      512.090
   LOCATION VOL8          VOLUME     472002.898  3752159.060      521.590
   LOCATION VOL9          VOLUME     471814.181  3752156.682      520.730
   LOCATION VOL10         VOLUME     471628.636  3752181.262      526.790
   LOCATION VOL11         VOLUME     471440.712  3752181.262      527.380
   LOCATION VOL12         VOLUME     471253.581  3752180.469      518.870
   LOCATION VOL13         VOLUME     471092.617  3752217.737      509.620
   LOCATION VOL14         VOLUME     471074.380  3752029.020      516.070
   LOCATION VOL15         VOLUME     471263.889  3751992.546      521.100
   LOCATION VOL16         VOLUME     471452.606  3751994.132      529.960
   LOCATION VOL17         VOLUME     471640.530  3751992.546      534.940
   LOCATION VOL18         VOLUME     471827.661  3751967.965      533.000
   LOCATION VOL19         VOLUME     472002.898  3751970.344      527.910
   LOCATION VOL20         VOLUME     471845.105  3751780.041      538.850
   LOCATION VOL21         VOLUME     471657.181  3751803.829      536.000
   LOCATION VOL22         VOLUME     471468.465  3751806.208      528.300
   LOCATION VOL23         VOLUME     471280.541  3751807.001      524.990
   LOCATION VOL24         VOLUME     471093.410  3751841.890      515.600
   LOCATION VOL25         VOLUME     470978.435  3751841.890      518.120
   LOCATION VOL26         VOLUME     471014.117  3751654.759      520.370
   LOCATION VOL27         VOLUME     471201.248  3751654.759      525.140
   LOCATION VOL28         VOLUME     471389.172  3751619.077      534.860
   LOCATION VOL29         VOLUME     471577.888  3751616.698      529.000
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LOCATION L0000218      VOLUME    473922.239 3752083.100 471.92
LOCATION L0000219      VOLUME    473930.664 3752084.772 471.66
LOCATION L0000220      VOLUME    473939.090 3752086.445 471.36
LOCATION L0000221      VOLUME    473947.515 3752088.118 471.07
LOCATION L0000222      VOLUME    473955.941 3752089.791 470.98
LOCATION L0000223      VOLUME    473964.366 3752091.463 470.92
LOCATION L0000224      VOLUME    473972.792 3752093.136 470.83
LOCATION L0000225      VOLUME    473981.218 3752094.809 470.69
LOCATION L0000226      VOLUME    473989.643 3752096.481 470.45
LOCATION L0000227      VOLUME    473998.069 3752098.154 470.24
LOCATION L0000228      VOLUME    474006.494 3752099.827 470.06
LOCATION L0000229      VOLUME    474014.920 3752101.500 470.00
LOCATION L0000230      VOLUME    474023.345 3752103.172 470.00
LOCATION L0000231      VOLUME    474031.771 3752104.845 470.00
LOCATION L0000232      VOLUME    474040.197 3752106.518 470.00
LOCATION L0000233      VOLUME    474048.622 3752108.190 470.00
LOCATION L0000234      VOLUME    474057.048 3752109.863 470.00
LOCATION L0000235      VOLUME    474065.473 3752111.536 470.00
LOCATION L0000236      VOLUME    474073.899 3752113.209 470.00
LOCATION L0000237      VOLUME    474082.324 3752114.881 470.00
LOCATION L0000238      VOLUME    474090.750 3752116.554 470.00
LOCATION L0000239      VOLUME    474099.175 3752118.227 470.00
LOCATION L0000240      VOLUME    474107.616 3752119.819 470.00
LOCATION L0000241      VOLUME    474116.081 3752121.281 470.00
LOCATION L0000242      VOLUME    474124.545 3752122.743 470.00
LOCATION L0000243      VOLUME    474133.010 3752124.205 470.00
LOCATION L0000244      VOLUME    474141.475 3752125.667 470.00
LOCATION L0000245      VOLUME    474149.939 3752127.129 470.00
LOCATION L0000246      VOLUME    474158.404 3752128.591 470.00
LOCATION L0000247      VOLUME    474166.869 3752130.053 470.00
LOCATION L0000248      VOLUME    474175.333 3752131.515 470.00
LOCATION L0000249      VOLUME    474183.798 3752132.977 470.00
LOCATION L0000250      VOLUME    474192.263 3752134.439 470.00
LOCATION L0000251      VOLUME    474200.727 3752135.901 470.00
LOCATION L0000252      VOLUME    474209.192 3752137.364 470.00
LOCATION L0000253      VOLUME    474217.657 3752138.826 470.00
LOCATION L0000254      VOLUME    474226.121 3752140.288 470.00
LOCATION L0000255      VOLUME    474234.586 3752141.750 470.00
LOCATION L0000256      VOLUME    474243.051 3752143.212 470.00
LOCATION L0000257      VOLUME    474251.515 3752144.674 470.06
LOCATION L0000258      VOLUME    474259.980 3752146.136 470.34
LOCATION L0000259      VOLUME    474268.445 3752147.598 470.60
LOCATION L0000260      VOLUME    474276.909 3752149.060 470.83
** End of LINE VOLUME Source ID = SLINE1
   LOCATION VOL50       VOLUME    471003.886  3752028.700     513.640
   LOCATION VOL51       VOLUME    471067.735  3751114.981     519.450
** Source Parameters **
   SRCPARAM VOL1        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL2        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL3        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL4        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL5        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL6        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL7        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL8        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL9        0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL10       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL11       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL12       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL13       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL14       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL15       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL16       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL17       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL18       0.0011080254     5.000     43.702     1.400
   SRCPARAM VOL19       0.0011080254     5.000     43.702     1.400
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      SRCPARAM VOL20         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL21         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL22         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL23         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL24         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL25         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL26         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL27         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL28         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL29         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL30         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL31         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL32         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL33         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL34         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL35         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL36         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL37         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL38         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL39         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL40         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL41         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL42         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL43         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL44         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL45         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL46         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL47         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL48         0.0011080254      5.000      43.702      1.400
      SRCPARAM VOL49         0.0011080254      5.000      43.702      1.400
**  LINE VOLUME Source ID = SLINE1
      SRCPARAM L0000001      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000002      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000003      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000004      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000005      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000006      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000007      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000008      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000009      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000010      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000011      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000012      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000013      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000014      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000015      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000016      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000017      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000018      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000019      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000020      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000021      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000022      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000023      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000024      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000025      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000026      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000027      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000028      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000029      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000030      0.0000007725      3.49       4.00       3.25
      SRCPARAM L0000031      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000032      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000033      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000034      0.000007725       3.49       4.00       3.25
      SRCPARAM L0000035      0.000007725       3.49       4.00       3.25
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   SRCPARAM L0000234       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000235       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000236       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000237       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000238       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000239       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000240       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000241       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000242       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000243       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000244       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000245       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000246       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000247       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000248       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000249       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000250       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000251       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000252       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000253       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000254       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000255       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000256       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000257       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000258       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000259       0.000007725       3.49       4.00       3.25
   SRCPARAM L0000260       0.000007725       3.49       4.00       3.25
** -----------------------------------------------------------------
   SRCPARAM VOL50          0.0011080254      5.000     43.702     1.400
   SRCPARAM VOL51          0.0011080254      5.000     43.702     1.400
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL1           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL2           HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

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   EMISFACT VOL50      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL50      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT VOL51      HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064-15 Cons HRA Unmit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "14064-15 CONS HRA UNMIT.AD\PE00GALL.PLT" 31
   SUMMFILE "14064-15 Cons HRA Unmit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***
```

```
    --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)



     ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***



     ********   WARNING MESSAGES   ********
 ME W186    4604        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used         0.50
 ME W187    4604        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 ▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***       11:18:46


                    PAGE   1
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                     ***    MODEL SETUP OPTIONS SUMMARY      ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -


 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for   311 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: DPM

 **Model Calculates PERIOD Averages Only

 **This Run Includes:    311 Source(s);      1 Source Group(s); and     233 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                and:    311 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
```

```
                          and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
        Model Outputs Tables of PERIOD Averages by Receptor
        Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
        Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing
                                                                Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
0.000     ;  Rot. Angle =      0.0
              Emission Units = GRAMS/SEC                              ;  Emission Rate
              Unit Factor =   0.10000E+07
              Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      3.8 MB of RAM.

**Input Runstream File:
aermod.inp
**Output Print File:
aermod.out

**Detailed Error/Message File:   14064-15 Cons HRA
 Unmit.err
**File for Summary of Results:   14064-15 Cons HRA
 Unmit.sum
▋▋ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                    ***      11:18:46

                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                      *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                  BASE    RELEASE    INIT.     INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT     SY        SZ
  SOURCE  SCALAR VARY
    ID     CATS.         BY     (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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VOL1            0   0.11080E-02  471175.5 3752366.4   510.2    5.00     43.70     1.40
YES    HRDOW
VOL2            0   0.11080E-02  471362.2 3752367.6   512.4    5.00     43.70     1.40
YES    HRDOW
VOL3            0   0.11080E-02  471550.1 3752368.4   518.9    5.00     43.70     1.40
YES    HRDOW
VOL4            0   0.11080E-02  471609.6 3752371.6   516.0    5.00     43.70     1.40
YES    HRDOW
VOL5            0   0.11080E-02  471796.7 3752342.2   515.1    5.00     43.70     1.40
YES    HRDOW
VOL6            0   0.11080E-02  471984.7 3752344.6   513.6    5.00     43.70     1.40
YES    HRDOW
```

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VOL7            0   0.11080E-02   472003.7 3752347.0   512.1    5.00    43.70    1.40
YES    HRDOW
VOL8            0   0.11080E-02   472002.9 3752159.1   521.6    5.00    43.70    1.40
YES    HRDOW
VOL9            0   0.11080E-02   471814.2 3752156.7   520.7    5.00    43.70    1.40
YES    HRDOW
VOL10           0   0.11080E-02   471628.6 3752181.3   526.8    5.00    43.70    1.40
YES    HRDOW
VOL11           0   0.11080E-02   471440.7 3752181.3   527.4    5.00    43.70    1.40
YES    HRDOW
VOL12           0   0.11080E-02   471253.6 3752180.5   518.9    5.00    43.70    1.40
YES    HRDOW
VOL13           0   0.11080E-02   471092.6 3752217.7   509.6    5.00    43.70    1.40
YES    HRDOW
VOL14           0   0.11080E-02   471074.4 3752029.0   516.1    5.00    43.70    1.40
YES    HRDOW
VOL15           0   0.11080E-02   471263.9 3751992.5   521.1    5.00    43.70    1.40
YES    HRDOW
VOL16           0   0.11080E-02   471452.6 3751994.1   530.0    5.00    43.70    1.40
YES    HRDOW
VOL17           0   0.11080E-02   471640.5 3751992.5   534.9    5.00    43.70    1.40
YES    HRDOW
VOL18           0   0.11080E-02   471827.7 3751968.0   533.0    5.00    43.70    1.40
YES    HRDOW
VOL19           0   0.11080E-02   472002.9 3751970.3   527.9    5.00    43.70    1.40
YES    HRDOW
VOL20           0   0.11080E-02   471845.1 3751780.0   538.8    5.00    43.70    1.40
YES    HRDOW
VOL21           0   0.11080E-02   471657.2 3751803.8   536.0    5.00    43.70    1.40
YES    HRDOW
VOL22           0   0.11080E-02   471468.5 3751806.2   528.3    5.00    43.70    1.40
YES    HRDOW
VOL23           0   0.11080E-02   471280.5 3751807.0   525.0    5.00    43.70    1.40
YES    HRDOW
VOL24           0   0.11080E-02   471093.4 3751841.9   515.6    5.00    43.70    1.40
YES    HRDOW
VOL25           0   0.11080E-02   470978.4 3751841.9   518.1    5.00    43.70    1.40
YES    HRDOW
VOL26           0   0.11080E-02   471014.1 3751654.8   520.4    5.00    43.70    1.40
YES    HRDOW
VOL27           0   0.11080E-02   471201.2 3751654.8   525.1    5.00    43.70    1.40
YES    HRDOW
VOL28           0   0.11080E-02   471389.2 3751619.1   534.9    5.00    43.70    1.40
YES    HRDOW
VOL29           0   0.11080E-02   471577.9 3751616.7   529.0    5.00    43.70    1.40
YES    HRDOW
VOL30           0   0.11080E-02   471724.6 3751620.7   533.8    5.00    43.70    1.40
YES    HRDOW
VOL31           0   0.11080E-02   471941.0 3751865.7   534.6    5.00    43.70    1.40
YES    HRDOW
VOL32           0   0.11080E-02   471795.2 3751684.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL33           0   0.11080E-02   471577.9 3751434.3   531.1    5.00    43.70    1.40
YES    HRDOW
VOL34           0   0.11080E-02   471390.0 3751431.9   537.3    5.00    43.70    1.40
YES    HRDOW
VOL35           0   0.11080E-02   471202.0 3751467.6   526.8    5.00    43.70    1.40
YES    HRDOW
VOL36           0   0.11080E-02   471065.7 3751504.9   522.0    5.00    43.70    1.40
YES    HRDOW
VOL37           0   0.11080E-02   471656.4 3751514.4   529.5    5.00    43.70    1.40
YES    HRDOW
VOL38           0   0.11080E-02   471522.4 3751324.1   529.0    5.00    43.70    1.40
YES    HRDOW
VOL39           0   0.11080E-02   471332.9 3751322.5   529.5    5.00    43.70    1.40
YES    HRDOW
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VOL40            0   0.11080E-02  471282.9 3751321.7   528.2    5.00    43.70     1.40
YES    HRDOW
🅿🅵 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
*** AERMET - VERSION  16216 ***
  ***                                                                  ***          11:18:46

                    PAGE   3
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** VOLUME SOURCE DATA ***

                NUMBER EMISSION RATE                    BASE     RELEASE    INIT.    INIT.
                URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)    X        Y        ELEV.    HEIGHT      SY       SZ
   SOURCE   SCALAR VARY
     ID       CATS.             (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

VOL41            0   0.11080E-02  471233.8 3751388.3   528.5    5.00    43.70     1.40
YES    HRDOW
VOL42            0   0.11080E-02  472135.6 3751845.1   525.8    5.00    43.70     1.40
YES    HRDOW
VOL43            0   0.11080E-02  472323.4 3751843.5   510.5    5.00    43.70     1.40
YES    HRDOW
VOL44            0   0.11080E-02  472512.5 3751852.3   501.4    5.00    43.70     1.40
YES    HRDOW
VOL45            0   0.11080E-02  472698.0 3751875.5   491.4    5.00    43.70     1.40
YES    HRDOW
VOL46            0   0.11080E-02  472880.8 3751928.7   487.9    5.00    43.70     1.40
YES    HRDOW
VOL47            0   0.11080E-02  472608.0 3752044.6   498.5    5.00    43.70     1.40
YES    HRDOW
VOL48            0   0.11080E-02  471084.5 3752407.2   506.8    5.00    43.70     1.40
YES    HRDOW
VOL49            0   0.11080E-02  471071.4 3751309.4   519.0    5.00    43.70     1.40
YES    HRDOW
L0000001         0   0.77250E-05  472090.3 3751866.1   530.3    3.49     4.00     3.25
YES    HRDOW
L0000002         0   0.77250E-05  472098.6 3751864.0   530.0    3.49     4.00     3.25
YES    HRDOW
L0000003         0   0.77250E-05  472107.0 3751861.8   529.6    3.49     4.00     3.25
YES    HRDOW
L0000004         0   0.77250E-05  472115.3 3751859.7   529.2    3.49     4.00     3.25
YES    HRDOW
L0000005         0   0.77250E-05  472123.6 3751857.5   528.3    3.49     4.00     3.25
YES    HRDOW
L0000006         0   0.77250E-05  472131.9 3751855.4   526.9    3.49     4.00     3.25
YES    HRDOW
L0000007         0   0.77250E-05  472140.2 3751853.2   525.3    3.49     4.00     3.25
YES    HRDOW
L0000008         0   0.77250E-05  472148.5 3751851.1   523.6    3.49     4.00     3.25
YES    HRDOW
L0000009         0   0.77250E-05  472156.9 3751848.9   522.1    3.49     4.00     3.25
YES    HRDOW
L0000010         0   0.77250E-05  472165.2 3751846.8   520.4    3.49     4.00     3.25
YES    HRDOW
L0000011         0   0.77250E-05  472173.5 3751844.6   519.2    3.49     4.00     3.25
YES    HRDOW
L0000012         0   0.77250E-05  472181.8 3751842.6   518.3    3.49     4.00     3.25
YES    HRDOW
L0000013         0   0.77250E-05  472190.4 3751841.6   518.2    3.49     4.00     3.25
YES    HRDOW
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L0000014          0    0.77250E-05  472198.9 3751840.7   518.1     3.49      4.00      3.25
YES    HRDOW
L0000015          0    0.77250E-05  472207.4 3751839.7   518.0     3.49      4.00      3.25
YES    HRDOW
L0000016          0    0.77250E-05  472216.0 3751838.7   518.1     3.49      4.00      3.25
YES    HRDOW
L0000017          0    0.77250E-05  472224.5 3751837.7   518.3     3.49      4.00      3.25
YES    HRDOW
L0000018          0    0.77250E-05  472233.0 3751836.7   518.6     3.49      4.00      3.25
YES    HRDOW
L0000019          0    0.77250E-05  472241.6 3751835.7   518.5     3.49      4.00      3.25
YES    HRDOW
L0000020          0    0.77250E-05  472250.1 3751834.7   517.4     3.49      4.00      3.25
YES    HRDOW
L0000021          0    0.77250E-05  472258.7 3751835.2   516.0     3.49      4.00      3.25
YES    HRDOW
L0000022          0    0.77250E-05  472267.2 3751835.8   514.5     3.49      4.00      3.25
YES    HRDOW
L0000023          0    0.77250E-05  472275.8 3751836.4   513.6     3.49      4.00      3.25
YES    HRDOW
L0000024          0    0.77250E-05  472284.4 3751836.9   513.0     3.49      4.00      3.25
YES    HRDOW
L0000025          0    0.77250E-05  472293.0 3751837.5   512.3     3.49      4.00      3.25
YES    HRDOW
L0000026          0    0.77250E-05  472301.5 3751838.1   511.8     3.49      4.00      3.25
YES    HRDOW
L0000027          0    0.77250E-05  472310.1 3751838.6   511.4     3.49      4.00      3.25
YES    HRDOW
L0000028          0    0.77250E-05  472318.7 3751839.2   511.1     3.49      4.00      3.25
YES    HRDOW
L0000029          0    0.77250E-05  472327.2 3751839.8   510.8     3.49      4.00      3.25
YES    HRDOW
L0000030          0    0.77250E-05  472335.8 3751840.4   509.8     3.49      4.00      3.25
YES    HRDOW
L0000031          0    0.77250E-05  472344.4 3751841.1   508.6     3.49      4.00      3.25
YES    HRDOW
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▪▪ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                 PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

```
            NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT     SY        SZ
  SOURCE  SCALAR VARY
    ID      CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0000032          0    0.77250E-05  472352.9 3751841.7   507.4     3.49      4.00      3.25
YES    HRDOW
L0000033          0    0.77250E-05  472361.5 3751842.3   506.4     3.49      4.00      3.25
YES    HRDOW
L0000034          0    0.77250E-05  472370.1 3751843.0   506.0     3.49      4.00      3.25
YES    HRDOW
L0000035          0    0.77250E-05  472378.6 3751843.6   505.6     3.49      4.00      3.25
YES    HRDOW
L0000036          0    0.77250E-05  472387.2 3751844.2   505.2     3.49      4.00      3.25
YES    HRDOW
```

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L0000070          0   0.77250E-05  472678.1 3751869.9   492.0     3.49      4.00      3.25
   YES    HRDOW
L0000071          0   0.77250E-05  472686.6 3751870.8   491.7     3.49      4.00      3.25
   YES    HRDOW
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🔲 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                    PAGE   5
*** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                           *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)								

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L0000072          0   0.77250E-05  472695.2 3751871.7   491.7     3.49      4.00      3.25
   YES    HRDOW
L0000073          0   0.77250E-05  472703.7 3751872.6   491.8     3.49      4.00      3.25
   YES    HRDOW
L0000074          0   0.77250E-05  472712.3 3751873.5   492.0     3.49      4.00      3.25
   YES    HRDOW
L0000075          0   0.77250E-05  472720.4 3751876.1   492.1     3.49      4.00      3.25
   YES    HRDOW
L0000076          0   0.77250E-05  472728.5 3751879.1   492.0     3.49      4.00      3.25
   YES    HRDOW
L0000077          0   0.77250E-05  472736.5 3751882.0   491.8     3.49      4.00      3.25
   YES    HRDOW
L0000078          0   0.77250E-05  472744.6 3751885.0   491.7     3.49      4.00      3.25
   YES    HRDOW
L0000079          0   0.77250E-05  472752.6 3751888.0   491.6     3.49      4.00      3.25
   YES    HRDOW
L0000080          0   0.77250E-05  472760.7 3751891.0   491.3     3.49      4.00      3.25
   YES    HRDOW
L0000081          0   0.77250E-05  472768.8 3751894.0   491.0     3.49      4.00      3.25
   YES    HRDOW
L0000082          0   0.77250E-05  472776.8 3751896.9   490.6     3.49      4.00      3.25
   YES    HRDOW
L0000083          0   0.77250E-05  472784.9 3751899.9   490.4     3.49      4.00      3.25
   YES    HRDOW
L0000084          0   0.77250E-05  472792.9 3751902.9   490.4     3.49      4.00      3.25
   YES    HRDOW
L0000085          0   0.77250E-05  472801.0 3751905.9   490.5     3.49      4.00      3.25
   YES    HRDOW
L0000086          0   0.77250E-05  472809.1 3751908.8   490.7     3.49      4.00      3.25
   YES    HRDOW
L0000087          0   0.77250E-05  472817.1 3751911.8   490.1     3.49      4.00      3.25
   YES    HRDOW
L0000088          0   0.77250E-05  472825.2 3751914.8   489.4     3.49      4.00      3.25
   YES    HRDOW
L0000089          0   0.77250E-05  472833.2 3751917.8   488.9     3.49      4.00      3.25
   YES    HRDOW
L0000090          0   0.77250E-05  472841.3 3751920.7   488.5     3.49      4.00      3.25
   YES    HRDOW
L0000091          0   0.77250E-05  472849.3 3751923.7   488.3     3.49      4.00      3.25
   YES    HRDOW
L0000092          0   0.77250E-05  472857.4 3751926.7   488.1     3.49      4.00      3.25
   YES    HRDOW
```

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L0000093          0   0.77250E-05   472865.5 3751929.7   488.0     3.49     4.00     3.25
YES    HRDOW
L0000094          0   0.77250E-05   472873.5 3751932.7   488.0     3.49     4.00     3.25
YES    HRDOW
L0000095          0   0.77250E-05   472881.6 3751935.6   488.0     3.49     4.00     3.25
YES    HRDOW
L0000096          0   0.77250E-05   472889.6 3751938.6   488.0     3.49     4.00     3.25
YES    HRDOW
L0000097          0   0.77250E-05   472897.7 3751941.6   488.0     3.49     4.00     3.25
YES    HRDOW
L0000098          0   0.77250E-05   472905.7 3751944.6   487.8     3.49     4.00     3.25
YES    HRDOW
L0000099          0   0.77250E-05   472913.8 3751947.5   487.5     3.49     4.00     3.25
YES    HRDOW
L0000100          0   0.77250E-05   472921.9 3751950.5   487.3     3.49     4.00     3.25
YES    HRDOW
L0000101          0   0.77250E-05   472929.9 3751953.5   487.0     3.49     4.00     3.25
YES    HRDOW
L0000102          0   0.77250E-05   472938.0 3751956.5   487.0     3.49     4.00     3.25
YES    HRDOW
L0000103          0   0.77250E-05   472946.0 3751959.4   487.0     3.49     4.00     3.25
YES    HRDOW
L0000104          0   0.77250E-05   472954.1 3751962.4   487.0     3.49     4.00     3.25
YES    HRDOW
L0000105          0   0.77250E-05   472962.1 3751965.4   486.9     3.49     4.00     3.25
YES    HRDOW
L0000106          0   0.77250E-05   472970.2 3751968.3   486.6     3.49     4.00     3.25
YES    HRDOW
L0000107          0   0.77250E-05   472978.4 3751970.9   486.2     3.49     4.00     3.25
YES    HRDOW
L0000108          0   0.77250E-05   472986.6 3751973.5   485.9     3.49     4.00     3.25
YES    HRDOW
L0000109          0   0.77250E-05   472994.8 3751976.1   485.6     3.49     4.00     3.25
YES    HRDOW
L0000110          0   0.77250E-05   473003.0 3751978.7   485.3     3.49     4.00     3.25
YES    HRDOW
L0000111          0   0.77250E-05   473011.2 3751981.3   485.1     3.49     4.00     3.25
YES    HRDOW
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
***   ***   11:18:46

                 PAGE   6
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

```
           NUMBER EMISSION RATE              BASE     RELEASE    INIT.    INIT.
           URBAN  EMISSION RATE
  SOURCE   PART.  (GRAMS/SEC)    X        Y      ELEV.   HEIGHT     SY       SZ
  SOURCE   SCALAR VARY
   ID      CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0000112          0   0.77250E-05   473019.4 3751983.8   485.0     3.49     4.00     3.25
YES    HRDOW
L0000113          0   0.77250E-05   473027.6 3751986.4   484.8     3.49     4.00     3.25
YES    HRDOW
L0000114          0   0.77250E-05   473035.8 3751989.0   484.6     3.49     4.00     3.25
YES    HRDOW
L0000115          0   0.77250E-05   473043.9 3751991.6   484.3     3.49     4.00     3.25
YES    HRDOW
```

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L0000149        0   0.77250E-05  473332.8 3752027.4   477.5      3.49     4.00     3.25
  YES    HRDOW
L0000150        0   0.77250E-05  473341.4 3752027.9   477.3      3.49     4.00     3.25
  YES    HRDOW
L0000151        0   0.77250E-05  473350.0 3752028.4   477.0      3.49     4.00     3.25
  YES    HRDOW
```

🔢 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE   7
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000152 YES HRDOW	0	0.77250E-05	473358.6	3752028.9	476.7	3.49	4.00	3.25
L0000153 YES HRDOW	0	0.77250E-05	473367.2	3752029.3	476.4	3.49	4.00	3.25
L0000154 YES HRDOW	0	0.77250E-05	473375.7	3752029.8	476.1	3.49	4.00	3.25
L0000155 YES HRDOW	0	0.77250E-05	473384.3	3752030.3	476.0	3.49	4.00	3.25
L0000156 YES HRDOW	0	0.77250E-05	473392.9	3752030.8	476.0	3.49	4.00	3.25
L0000157 YES HRDOW	0	0.77250E-05	473401.5	3752031.2	476.0	3.49	4.00	3.25
L0000158 YES HRDOW	0	0.77250E-05	473410.0	3752032.0	476.0	3.49	4.00	3.25
L0000159 YES HRDOW	0	0.77250E-05	473418.6	3752032.9	475.8	3.49	4.00	3.25
L0000160 YES HRDOW	0	0.77250E-05	473427.1	3752033.9	475.6	3.49	4.00	3.25
L0000161 YES HRDOW	0	0.77250E-05	473435.6	3752034.8	475.4	3.49	4.00	3.25
L0000162 YES HRDOW	0	0.77250E-05	473444.2	3752035.8	475.3	3.49	4.00	3.25
L0000163 YES HRDOW	0	0.77250E-05	473452.7	3752036.7	475.2	3.49	4.00	3.25
L0000164 YES HRDOW	0	0.77250E-05	473461.2	3752037.6	475.1	3.49	4.00	3.25
L0000165 YES HRDOW	0	0.77250E-05	473469.8	3752038.6	475.0	3.49	4.00	3.25
L0000166 YES HRDOW	0	0.77250E-05	473478.3	3752039.5	475.0	3.49	4.00	3.25
L0000167 YES HRDOW	0	0.77250E-05	473486.9	3752040.5	475.0	3.49	4.00	3.25
L0000168 YES HRDOW	0	0.77250E-05	473495.4	3752041.4	475.0	3.49	4.00	3.25
L0000169 YES HRDOW	0	0.77250E-05	473503.9	3752042.3	474.9	3.49	4.00	3.25
L0000170 YES HRDOW	0	0.77250E-05	473512.5	3752043.3	474.8	3.49	4.00	3.25
L0000171 YES HRDOW	0	0.77250E-05	473521.0	3752044.2	474.6	3.49	4.00	3.25

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L0000172          0   0.77250E-05  473529.6 3752045.2   474.4     3.49     4.00     3.25
 YES    HRDOW
L0000173          0   0.77250E-05  473538.1 3752046.1   474.2     3.49     4.00     3.25
 YES    HRDOW
L0000174          0   0.77250E-05  473546.6 3752047.1   474.1     3.49     4.00     3.25
 YES    HRDOW
L0000175          0   0.77250E-05  473555.2 3752048.0   474.0     3.49     4.00     3.25
 YES    HRDOW
L0000176          0   0.77250E-05  473563.7 3752048.9   473.9     3.49     4.00     3.25
 YES    HRDOW
L0000177          0   0.77250E-05  473572.2 3752049.9   473.6     3.49     4.00     3.25
 YES    HRDOW
L0000178          0   0.77250E-05  473580.8 3752050.8   473.3     3.49     4.00     3.25
 YES    HRDOW
L0000179          0   0.77250E-05  473589.3 3752051.8   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000180          0   0.77250E-05  473597.9 3752052.7   472.8     3.49     4.00     3.25
 YES    HRDOW
L0000181          0   0.77250E-05  473606.4 3752053.6   472.5     3.49     4.00     3.25
 YES    HRDOW
L0000182          0   0.77250E-05  473614.9 3752054.6   472.2     3.49     4.00     3.25
 YES    HRDOW
L0000183          0   0.77250E-05  473623.5 3752055.5   472.2     3.49     4.00     3.25
 YES    HRDOW
L0000184          0   0.77250E-05  473632.0 3752056.0   472.4     3.49     4.00     3.25
 YES    HRDOW
L0000185          0   0.77250E-05  473640.6 3752056.2   472.7     3.49     4.00     3.25
 YES    HRDOW
L0000186          0   0.77250E-05  473649.2 3752056.4   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000187          0   0.77250E-05  473657.8 3752056.6   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000188          0   0.77250E-05  473666.4 3752056.8   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000189          0   0.77250E-05  473675.0 3752057.0   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000190          0   0.77250E-05  473683.6 3752057.2   473.0     3.49     4.00     3.25
 YES    HRDOW
L0000191          0   0.77250E-05  473692.2 3752057.4   473.0     3.49     4.00     3.25
 YES    HRDOW
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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0000192 YES	0 HRDOW	0.77250E-05	473700.7	3752057.6	473.0	3.49	4.00	3.25
L0000193 YES	0 HRDOW	0.77250E-05	473709.3	3752057.9	473.0	3.49	4.00	3.25
L0000194 YES	0 HRDOW	0.77250E-05	473717.9	3752058.1	473.0	3.49	4.00	3.25

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L0000228              0   0.77250E-05   474006.5 3752099.8    470.1     3.49     4.00     3.25
   YES    HRDOW
L0000229              0   0.77250E-05   474014.9 3752101.5    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000230              0   0.77250E-05   474023.3 3752103.2    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000231              0   0.77250E-05   474031.8 3752104.8    470.0     3.49     4.00     3.25
   YES    HRDOW
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

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              NUMBER EMISSION RATE                    BASE     RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)    X          Y      ELEV.    HEIGHT     SY       SZ
   SOURCE  SCALAR VARY
     ID      CATS.                (METERS)  (METERS) (METERS) (METERS) (METERS)
    (METERS)              BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0000232              0   0.77250E-05   474040.2 3752106.5    470.0     3.49     4.00     3.25
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L0000233              0   0.77250E-05   474048.6 3752108.2    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000234              0   0.77250E-05   474057.0 3752109.9    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000235              0   0.77250E-05   474065.5 3752111.5    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000236              0   0.77250E-05   474073.9 3752113.2    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000237              0   0.77250E-05   474082.3 3752114.9    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000238              0   0.77250E-05   474090.8 3752116.6    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000239              0   0.77250E-05   474099.2 3752118.2    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000240              0   0.77250E-05   474107.6 3752119.8    470.0     3.49     4.00     3.25
   YES    HRDOW
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   YES    HRDOW
L0000242              0   0.77250E-05   474124.5 3752122.7    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000243              0   0.77250E-05   474133.0 3752124.2    470.0     3.49     4.00     3.25
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L0000244              0   0.77250E-05   474141.5 3752125.7    470.0     3.49     4.00     3.25
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L0000245              0   0.77250E-05   474149.9 3752127.1    470.0     3.49     4.00     3.25
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L0000246              0   0.77250E-05   474158.4 3752128.6    470.0     3.49     4.00     3.25
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L0000247              0   0.77250E-05   474166.9 3752130.1    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000248              0   0.77250E-05   474175.3 3752131.5    470.0     3.49     4.00     3.25
   YES    HRDOW
L0000249              0   0.77250E-05   474183.8 3752133.0    470.0     3.49     4.00     3.25
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L0000250              0   0.77250E-05   474192.3 3752134.4    470.0     3.49     4.00     3.25
   YES    HRDOW
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  YES    HRDOW
L0000253         0   0.77250E-05  474217.7 3752138.8   470.0      3.49      4.00      3.25
  YES    HRDOW
L0000254         0   0.77250E-05  474226.1 3752140.3   470.0      3.49      4.00      3.25
  YES    HRDOW
L0000255         0   0.77250E-05  474234.6 3752141.8   470.0      3.49      4.00      3.25
  YES    HRDOW
L0000256         0   0.77250E-05  474243.1 3752143.2   470.0      3.49      4.00      3.25
  YES    HRDOW
L0000257         0   0.77250E-05  474251.5 3752144.7   470.1      3.49      4.00      3.25
  YES    HRDOW
L0000258         0   0.77250E-05  474260.0 3752146.1   470.3      3.49      4.00      3.25
  YES    HRDOW
L0000259         0   0.77250E-05  474268.4 3752147.6   470.6      3.49      4.00      3.25
  YES    HRDOW
L0000260         0   0.77250E-05  474276.9 3752149.1   470.8      3.49      4.00      3.25
  YES    HRDOW
VOL50            0   0.11080E-02  471003.9 3752028.7   513.6      5.00     43.70      1.40
  YES    HRDOW
VOL51            0   0.11080E-02  471067.7 3751115.0   519.4      5.00     43.70      1.40
  YES    HRDOW
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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              VOL15   , VOL16   ,

              VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
              VOL23   , VOL24   ,

              VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
              VOL31   , VOL32   ,

              VOL33   , VOL34   , VOL35   , VOL36   , VOL37   , VOL38   ,
              VOL39   , VOL40   ,

              VOL41   , VOL42   , VOL43   , VOL44   , VOL45   , VOL46   ,
              VOL47   , VOL48   ,

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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                 *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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VOL8   ,

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           VOL15   , VOL16   ,

           VOL17   , VOL18   , VOL19   , VOL20   , VOL21   , VOL22   ,
           VOL23   , VOL24   ,

           VOL25   , VOL26   , VOL27   , VOL28   , VOL29   , VOL30   ,
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 *** AERMET – VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                  *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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        L0000208      , L0000209      , L0000210      , L0000211      , L0000212      , L0000213      ,
        L0000214      , L0000215      ,

        L0000216      , L0000217      , L0000218      , L0000219      , L0000220      , L0000221      ,
        L0000222      , L0000223      ,

        L0000224      , L0000225      , L0000226      , L0000227      , L0000228      , L0000229      ,
        L0000230      , L0000231      ,

        L0000232      , L0000233      , L0000234      , L0000235      , L0000236      , L0000237      ,
        L0000238      , L0000239      ,

        L0000240      , L0000241      , L0000242      , L0000243      , L0000244      , L0000245      ,
        L0000246      , L0000247      ,

        L0000248      , L0000249      , L0000250      , L0000251      , L0000252      , L0000253      ,
        L0000254      , L0000255      ,

        L0000256      , L0000257      , L0000258      , L0000259      , L0000260      , VOL50         ,
        VOL51         ,
```

                 PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

```
 - - - - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL2          ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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```
                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                       (HRDOW) *

 SOURCE ID = VOL3          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                       (HRDOW) *

 SOURCE ID = VOL4          ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
    .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                         ***        11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN   ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL5        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                         ***        11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN   ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL6        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                      PAGE 21
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
```

```
         .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

███ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 22
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL9   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                      DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

███ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 23
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL10   ; SOURCE TYPE = VOLUME   :

```
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE  24
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL11         ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▣▣ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

SOURCE ID = VOL13   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL14   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                        * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

�byFF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▪FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                        PAGE 30
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .1000E+01    10   .1000E+01    11   .1000E+01    12   .1000E+01    13   .1000E+01    14
   .1000E+01    15   .1000E+01    16   .1000E+01
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
                                       DAY OF WEEK = SATURDAY
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
                                       DAY OF WEEK = SUNDAY
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                      PAGE 31
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL18        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .1000E+01    10   .1000E+01    11   .1000E+01    12   .1000E+01    13   .1000E+01    14
   .1000E+01    15   .1000E+01    16   .1000E+01
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
                                       DAY OF WEEK = SATURDAY
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
                                       DAY OF WEEK = SUNDAY
   1   .0000E+00     2   .0000E+00     3   .0000E+00     4   .0000E+00     5   .0000E+00     6
   .0000E+00     7   .0000E+00     8   .0000E+00
   9   .0000E+00    10   .0000E+00    11   .0000E+00    12   .0000E+00    13   .0000E+00    14
   .0000E+00    15   .0000E+00    16   .0000E+00
  17   .0000E+00    18   .0000E+00    19   .0000E+00    20   .0000E+00    21   .0000E+00    22
  .0000E+00    23   .0000E+00    24   .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                      PAGE 32
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                            (HRDOW) *

 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***          11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *


 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 ▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***          11:18:46


                    PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *


 SOURCE ID = VOL29        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .00D00E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                    PAGE 43
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL31   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 45
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL32   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:18:46


                   PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL34   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                               DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                               DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                               DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL35        ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE  49
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL36        ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL37        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

� *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL38        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL39   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL40   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL41   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00

▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
     .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL44       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔒🔒 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL45       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL46   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                  PAGE 61
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL48   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                  PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL49   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 63
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000001   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                     DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 64
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000002   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR

```
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000004   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000005   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
           .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
 SOURCE ID = L0000006    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 69
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
 SOURCE ID = L0000007    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

░░ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000008    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR   HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

░░ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                 PAGE 71
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000009    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR   HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


```
 SOURCE ID = L0000010    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR   HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000011    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000012    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000013   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                               DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                               DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000014   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                               DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                               DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                               DAY OF WEEK = SUNDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⧈⧈ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000015   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                       DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                       DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⧈⧈ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000016   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000017   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000018   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🏳🏳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000019   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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🏳🏳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000020    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                     * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000021    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
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    .0000E+00   23  .0000E+00   24  .0000E+00
▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                             ***       11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000022     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                             ***       11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000023     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = L0000024   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
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🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                      ***          11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
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      .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000026     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000027     ; SOURCE TYPE = VOLUME    :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▊▊ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000028   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▊▊ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000029   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000030   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000031   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000032   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000033    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000034    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000035   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = L0000036   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000037   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000038   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▮▮ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000039   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

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                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000040   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***        11:18:46

 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000041     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000042   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000043   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000044    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000045    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000046    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .00D00E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000047   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000048   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
           .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 111
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = L0000049    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


SOURCE ID = L0000050    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000051    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = L0000052     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

```
SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = L0000054    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

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                  PAGE 117
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = L0000055    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
```

```
       .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000056   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
       .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
       .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
       .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
```

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***        11:18:46

                    PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000057    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
       .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
       .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000058   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000059   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000060   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = L0000061     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *

 SOURCE ID = L0000062     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 125
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000063   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE 126
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000064   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 127
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000065   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***        11:18:46


                     PAGE 128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000066    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
```

```
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                   DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 129
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000067    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
 .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                   DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 130
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000068    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
```

```
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

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▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***      11:18:46
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                 PAGE 131
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000069    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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▪▪ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***      11:18:46
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000070   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000071   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
        .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000072   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        11:18:46


                          PAGE 135
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000073    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000074    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000075    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 138
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000076   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 139
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = L0000077    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                               ***        11:18:46

                 PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000078    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 141
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


SOURCE ID = L0000079    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


SOURCE ID = L0000080    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000081   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                          DAY OF WEEK = SATURDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                          DAY OF WEEK = SUNDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000082   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = L0000083   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = L0000084   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🯁🯂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000085   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🯁🯂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000086     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000087     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
        .0000E+00   23   .0000E+00   24   .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000088   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .1000E+01   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .1000E+01   15   .1000E+01   16   .1000E+01
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SATURDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SUNDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000089   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .1000E+01   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .1000E+01   15   .1000E+01   16   .1000E+01
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SATURDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
▌▌ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                   PAGE 152
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000090   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```
▌▌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                            ***        11:18:46


                   PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000091    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
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       .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

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                     PAGE 154
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000092    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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                     PAGE 155
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000093    ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000094   ; SOURCE TYPE = VOLUME   :

```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = L0000095   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
🔳 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = L0000096   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = L0000097   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = L0000098   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000099    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000100    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000101   ; SOURCE TYPE = VOLUME :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = L0000102   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000103   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000104   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ⬛⬛ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000105   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                  PAGE 168
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000106   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                  PAGE 169
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000107   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 170
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000108    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 171
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000109    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

- -
- -
                                           DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000110   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

SOURCE ID = L0000111   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

SOURCE ID = L0000112   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .000D0E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                       PAGE 175
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000113   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                       PAGE 176
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000114   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

```
       .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

🔒 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000115   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

🔒 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = L0000116   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 179
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000117   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 180
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000118    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                    PAGE 181
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = L0000119    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                      PAGE 182
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = L0000120    ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
 🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
```
 *** AERMET - VERSION  16216 ***
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                      PAGE 183
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = L0000121    ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
```

```
       .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
       .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
       .0000E+00   23  .0000E+00   24  .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000122   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
       .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
       .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
       .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
```

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000123   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
       .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
       .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
       .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 186
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000124    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 187
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000125    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
```

```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 188
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000126    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 189
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000127    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR   HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
🕮 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000128    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR   SCALAR   HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

                    PAGE 191
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000129   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                    PAGE 192
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000130   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000131   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                  PAGE 194
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000132   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
```

```
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
                                         DAY OF WEEK = SATURDAY
   1   .0000E+00      2   .0000E+00      3   .0000E+00      4   .0000E+00      5   .0000E+00      6
   .0000E+00      7   .0000E+00      8   .0000E+00
   9   .0000E+00     10   .0000E+00     11   .0000E+00     12   .0000E+00     13   .0000E+00     14
   .0000E+00     15   .0000E+00     16   .0000E+00
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
                                         DAY OF WEEK = SUNDAY
   1   .0000E+00      2   .0000E+00      3   .0000E+00      4   .0000E+00      5   .0000E+00      6
   .0000E+00      7   .0000E+00      8   .0000E+00
   9   .0000E+00     10   .0000E+00     11   .0000E+00     12   .0000E+00     13   .0000E+00     14
   .0000E+00     15   .0000E+00     16   .0000E+00
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000133   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1   .0000E+00      2   .0000E+00      3   .0000E+00      4   .0000E+00      5   .0000E+00      6
   .0000E+00      7   .0000E+00      8   .0000E+00
   9   .1000E+01     10   .1000E+01     11   .1000E+01     12   .1000E+01     13   .1000E+01     14
   .1000E+01     15   .1000E+01     16   .1000E+01
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
                                         DAY OF WEEK = SATURDAY
   1   .0000E+00      2   .0000E+00      3   .0000E+00      4   .0000E+00      5   .0000E+00      6
   .0000E+00      7   .0000E+00      8   .0000E+00
   9   .0000E+00     10   .0000E+00     11   .0000E+00     12   .0000E+00     13   .0000E+00     14
   .0000E+00     15   .0000E+00     16   .0000E+00
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
                                         DAY OF WEEK = SUNDAY
   1   .0000E+00      2   .0000E+00      3   .0000E+00      4   .0000E+00      5   .0000E+00      6
   .0000E+00      7   .0000E+00      8   .0000E+00
   9   .0000E+00     10   .0000E+00     11   .0000E+00     12   .0000E+00     13   .0000E+00     14
   .0000E+00     15   .0000E+00     16   .0000E+00
  17   .0000E+00     18   .0000E+00     19   .0000E+00     20   .0000E+00     21   .0000E+00     22
   .0000E+00     23   .0000E+00     24   .0000E+00
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000134   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR

```
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000135   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000136   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000137   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

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          .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                      PAGE 200
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000138    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000139    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
```

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  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
   .0000E+00    7 .0000E+00    8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000140   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 203
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000141   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
     .1000E+01    15  .1000E+01    16  .1000E+01
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
     .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
     .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
```

                        PAGE 204
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = L0000142    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
     .1000E+01    15  .1000E+01    16  .1000E+01
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
     .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
     .0000E+00     7  .0000E+00     8  .0000E+00
     9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
     .0000E+00    15  .0000E+00    16  .0000E+00
    17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
```

                        PAGE 205
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = L0000143    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = L0000144    ; SOURCE TYPE = VOLUME   :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 207
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000145    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
  .0000E+00    7 .0000E+00    8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
  .0000E+00    7 .0000E+00    8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
  .0000E+00    7 .0000E+00    8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```
⏣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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                    PAGE 208
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000146    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
  .0000E+00    7 .0000E+00    8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
  1 .0000E+00    2 .0000E+00    3 .0000E+00    4 .0000E+00    5 .0000E+00    6
  .0000E+00    7 .0000E+00    8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▙▟ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000147   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▙▟ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 210
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000148   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▌▌ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 211
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000149   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▌▌ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000150   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 213
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000151    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 214
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000152    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000153    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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                   PAGE 216
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000154     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01   15  .1000E+01    16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00    16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00    16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                   PAGE 217
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *


 SOURCE ID = L0000155     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR   HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01   15  .1000E+01    16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00    7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00   15  .0000E+00    16  .0000E+00
```

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⧉⧉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000156   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                      DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                      DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

⧉⧉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000157   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 220
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000158    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 221
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = L0000159    ; SOURCE TYPE = VOLUME    :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 222
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000160   ; SOURCE TYPE = VOLUME   :

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = L0000161   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = L0000162   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = L0000163   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW) *

 SOURCE ID = L0000164   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000165   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000166   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY

```
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
 .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000167   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
 .1000E+01    15  .1000E+01    16  .1000E+01
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 230
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                          (HRDOW) *


 SOURCE ID = L0000168    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                ***        11:18:46


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000169    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000170   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000171   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 234
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000172   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 235
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000173   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 236
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000174    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 237
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000175    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```

- -
- - - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000176   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000177    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000178    ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

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  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000179   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                      DAY OF WEEK = SATURDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                      DAY OF WEEK = SUNDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000180   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                      DAY OF WEEK = SATURDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
```

```
         .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

SOURCE ID = L0000181   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

SOURCE ID = L0000182   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🏴 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = L0000183   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🏴 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = L0000184    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
SOURCE ID = L0000185    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***

```
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000186    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** AERMET - VERSION  16216 ***
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                     PAGE 249
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000187    ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```
██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000188   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```
                                      DAY OF WEEK = SATURDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```
                                      DAY OF WEEK = SUNDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```
██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000189   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```
                                      DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000190    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000191    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
```

```
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🯁🯂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000192   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🯁🯂 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000193     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000194     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

🖿 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000195   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🖿 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                     PAGE 258
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000196   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 259
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000197   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000198   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000199     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN   ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000200     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
```

```
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000201   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000202   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000203   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
         .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000204   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000205   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000206   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = L0000207   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000208   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = L0000209    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
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[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:18:46
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                 PAGE 272
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000210    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE 273
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000211    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23

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                      PAGE 274
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000212    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

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   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000213   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
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▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000214   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00

▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                        ***        11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000215     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                     DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00

▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                        ***        11:18:46

                   PAGE 278
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = L0000216     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

```
   - - - - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 279
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000217   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
   - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
   - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .1000E+01    15  .1000E+01    16  .1000E+01
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
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🏳️ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 280
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000218     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000219     ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
```

```
      .0000E+00   23  .0000E+00   24  .0000E+00
[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                    ***        11:18:46

                    PAGE 282
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000220    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
[FF] *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
  ***                                                                    ***        11:18:46

                    PAGE 283
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000221    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                       PAGE 284
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000222   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                       PAGE 285
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = L0000223   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
```

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     .1000E+01   15  .1000E+01   16  .1000E+01
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 286
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000224     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
 .1000E+01   15  .1000E+01   16  .1000E+01
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 287
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *


 SOURCE ID = L0000225     ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                   PAGE 288
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000226   ; SOURCE TYPE = VOLUME   :

```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000227   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000228   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                       PAGE 291
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000229   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

                       PAGE 292
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000230   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000231   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 294
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000232   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                     PAGE 295
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000233   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                     PAGE 296
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                      (HRDOW) *


 SOURCE ID = L0000234    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000235    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                     PAGE 298
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000236   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 299
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000237   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

```
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        11:18:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000238     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***        11:18:46

                    PAGE 301
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

 SOURCE ID = L0000239     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
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     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 302
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000240    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 303
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = L0000241    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
```

- -
- -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000242   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *


 SOURCE ID = L0000243    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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 *** AERMET - VERSION  16216 ***
 ***                                                              ***            11:18:46
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*** MODELOPTs:    RegDFAULT  CONC  ELEV   URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW) *


 SOURCE ID = L0000244    ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0D00E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = L0000245   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```

🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                      ***        11:18:46


                     PAGE 308
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000246    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
```

```
         .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
     1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
     9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
    .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000247   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .1000E+01   15 .1000E+01   16 .1000E+01
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
     9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
    .0000E+00   15 .0000E+00   16 .0000E+00
    17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = L0000248   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
     1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00

```
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🆕 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 311
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000249   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                               DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                               DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                               DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

🆕 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                ***       11:18:46

                    PAGE 312
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000250     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR   HOUR    SCALAR   HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = L0000251     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR   HOUR    SCALAR   HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .1000E+01    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .1000E+01    15  .1000E+01    16  .1000E+01
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
    .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
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                 PAGE 314
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000252    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
 � *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
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*** AERMET - VERSION  16216 ***
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                 PAGE 315
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = L0000253    ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 316
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000254    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                     PAGE 317
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = L0000255    ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000256     ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

```
 SOURCE ID = L0000257     ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
```

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = L0000258   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000259    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔲🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = L0000260    ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .1000E+01   15  .1000E+01   16  .1000E+01
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL50   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                    PAGE 324
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL51   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .1000E+01   15 .1000E+01   16 .1000E+01
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                 PAGE 325
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)


  ( 472283.7, 3752641.0,     492.6,      492.6,       0.0);       ( 472482.2, 3752398.0,
    499.3,      499.3,        0.0);
  ( 472478.0, 3752183.1,     505.1,      505.1,       0.0);       ( 472148.1, 3752531.5,
    495.2,      502.0,        0.0);
  ( 472052.1, 3752531.2,     499.4,      512.0,       0.0);       ( 471975.5, 3752531.2,
    500.5,      514.0,        0.0);
  ( 471896.1, 3752530.9,     503.4,      513.0,       0.0);       ( 471840.8, 3752529.9,
    503.4,      513.0,        0.0);
  ( 471816.6, 3752527.1,     500.6,      513.0,       0.0);       ( 471736.8, 3752557.9,
    501.5,      501.5,        0.0);
  ( 471696.6, 3752558.9,     500.0,      500.0,       0.0);       ( 471627.3, 3752556.2,
    501.9,      512.0,        0.0);
  ( 471584.6, 3752556.8,     504.5,      507.0,       0.0);       ( 471560.0, 3752556.2,
    504.6,      507.0,        0.0);
  ( 471534.3, 3752554.9,     503.2,      509.0,       0.0);       ( 471514.9, 3752554.9,
    502.2,      519.0,        0.0);
  ( 471486.8, 3752555.7,     503.1,      503.1,       0.0);       ( 471465.7, 3752555.4,
    503.1,      503.1,        0.0);
  ( 471442.2, 3752555.0,     501.3,      505.0,       0.0);       ( 471419.7, 3752552.5,
    500.3,      505.0,        0.0);
  ( 471394.2, 3752552.9,     501.4,      501.4,       0.0);       ( 471363.4, 3752552.5,
    503.5,      503.5,        0.0);
  ( 471332.7, 3752553.3,     505.8,      505.8,       0.0);       ( 471307.6, 3752552.9,
    506.9,      506.9,        0.0);
  ( 471284.0, 3752552.7,     506.2,      506.2,       0.0);       ( 471262.0, 3752552.7,
    505.7,      505.7,        0.0);
  ( 471241.9, 3752552.7,     505.6,      505.6,       0.0);       ( 471223.1, 3752552.9,
    505.9,      505.9,        0.0);
  ( 471205.9, 3752552.9,     506.2,      506.2,       0.0);       ( 471173.2, 3752552.4,
    506.5,      506.5,        0.0);
  ( 471135.7, 3752552.5,     506.1,      506.1,       0.0);       ( 471093.2, 3752551.5,
    505.4,      505.4,        0.0);
  ( 471059.4, 3752551.7,     504.7,      504.7,       0.0);       ( 471020.5, 3752551.2,
    503.1,      503.1,        0.0);
  ( 470981.0, 3752563.6,     502.1,      502.1,       0.0);       ( 470980.4, 3752552.2,
    502.5,      502.5,        0.0);
  ( 470980.1, 3752535.6,     503.0,      503.0,       0.0);       ( 470979.9, 3752517.2,
    503.7,      503.7,        0.0);
  ( 470980.1, 3752499.8,     504.0,      504.0,       0.0);       ( 470980.2, 3752479.8,
    504.0,      504.0,        0.0);
  ( 470980.4, 3752459.4,     504.6,      504.6,       0.0);       ( 470980.2, 3752433.2,
    505.4,      505.4,        0.0);
  ( 470980.1, 3752404.0,     506.0,      506.0,       0.0);       ( 470927.1, 3752402.7,
    504.9,      504.9,        0.0);
  ( 470907.9, 3752402.7,     503.1,      503.1,       0.0);       ( 470887.3, 3752402.7,
    500.9,      505.0,        0.0);
```

```
     ( 470869.7, 3752402.0,     500.7,      500.7,        0.0);      ( 470849.6, 3752401.9,
   500.3,      500.3,        0.0);
     ( 470829.4, 3752402.2,     500.0,      500.0,        0.0);      ( 470811.6, 3752402.2,
   499.7,      499.7,        0.0);
     ( 470791.5, 3752402.5,     499.2,      499.2,        0.0);      ( 470773.6, 3752401.9,
   498.6,      498.6,        0.0);
     ( 470749.2, 3752402.2,     497.8,      497.8,        0.0);      ( 470727.7, 3752391.7,
   497.8,      497.8,        0.0);
     ( 470733.0, 3752339.0,     499.9,      499.9,        0.0);      ( 470733.7, 3752320.5,
   500.2,      500.2,        0.0);
     ( 470734.2, 3752291.0,     500.8,      500.8,        0.0);      ( 470733.2, 3752265.8,
   500.8,      500.8,        0.0);
     ( 470732.9, 3752218.8,     501.2,      501.2,        0.0);      ( 470732.5, 3752182.1,
   501.8,      501.8,        0.0);
     ( 470732.4, 3752145.3,     503.0,      503.0,        0.0);      ( 470692.4, 3752144.8,
   502.5,      502.5,        0.0);
     ( 470670.1, 3752144.5,     502.1,      502.1,        0.0);      ( 470651.7, 3752144.3,
   502.0,      502.0,        0.0);
     ( 470633.5, 3752144.1,     501.5,      501.5,        0.0);      ( 470615.5, 3752144.0,
   500.9,      500.9,        0.0);
     ( 470596.0, 3752143.3,     500.2,      500.2,        0.0);      ( 470577.0, 3752143.5,
   500.0,      500.0,        0.0);
     ( 470553.6, 3752143.5,     499.7,      499.7,        0.0);      ( 470528.6, 3752142.6,
   498.8,      498.8,        0.0);
     ( 470508.0, 3752142.8,     497.6,      497.6,        0.0);      ( 470485.6, 3752142.5,
   496.3,      496.3,        0.0);
     ( 470471.6, 3752131.6,     496.1,      496.1,        0.0);      ( 470471.6, 3752109.2,
   497.3,      497.3,        0.0);
     ( 470471.3, 3752085.2,     498.1,      498.1,        0.0);      ( 470471.5, 3752037.7,
   499.7,      499.7,        0.0);
     ( 470471.7, 3752013.0,     500.0,      500.0,        0.0);      ( 470470.9, 3751987.2,
   500.1,      500.1,        0.0);
     ( 470470.9, 3751965.7,     500.1,      500.1,        0.0);      ( 470470.8, 3751944.4,
   500.1,      500.1,        0.0);
     ( 470470.6, 3751924.3,     499.6,      499.6,        0.0);      ( 470470.5, 3751905.9,
   499.0,      499.0,        0.0);
     ( 470470.9, 3751884.1,     499.1,      499.1,        0.0);      ( 470470.6, 3751864.0,
   498.6,      498.6,        0.0);
     ( 470470.3, 3751844.0,     497.9,      497.9,        0.0);      ( 470470.2, 3751824.5,
   496.6,      496.6,        0.0);
     ( 470470.3, 3751805.8,     495.7,      499.0,        0.0);      ( 470470.3, 3751788.0,
   495.1,      502.0,        0.0);
     ( 470470.3, 3751761.2,     497.6,      497.6,        0.0);      ( 470471.0, 3751741.9,
   499.5,      499.5,        0.0);
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                     PAGE 326
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                         (METERS)

```
     ( 470470.0, 3751722.8,     501.4,      501.4,        0.0);      ( 470470.2, 3751703.4,
   503.3,      503.3,        0.0);
     ( 470470.2, 3751683.8,     504.9,      504.9,        0.0);      ( 470470.3, 3751664.3,
   506.2,      506.2,        0.0);
     ( 470470.3, 3751642.4,     507.6,      507.6,        0.0);      ( 470470.5, 3751621.8,
   508.5,      508.5,        0.0);
     ( 470470.2, 3751599.8,     509.0,      509.0,        0.0);      ( 470470.6, 3751578.8,
   509.1,      509.1,        0.0);
     ( 470469.6, 3751555.9,     507.6,      507.6,        0.0);      ( 470470.0, 3751512.5,
   504.8,      512.0,        0.0);
```

```
( 472036.9, 3751348.5,      536.6,      536.6,        0.0);        ( 472063.1, 3751349.3,
536.5,       536.5,        0.0);
( 472084.6, 3751348.3,      535.8,      535.8,        0.0);        ( 472104.9, 3751348.7,
534.6,       534.6,        0.0);
( 472127.3, 3751348.5,      533.0,      533.0,        0.0);        ( 472150.8, 3751349.7,
531.4,       531.4,        0.0);
( 472171.5, 3751349.5,      530.3,      530.3,        0.0);        ( 472194.1, 3751349.1,
528.2,       531.0,        0.0);
( 472222.6, 3751348.7,      525.4,      536.0,        0.0);        ( 472247.8, 3751349.5,
523.2,       536.0,        0.0);
( 472269.7, 3751349.1,      520.9,      536.0,        0.0);        ( 472290.4, 3751350.3,
520.7,       535.0,        0.0);
( 472313.6, 3751350.5,      520.9,      532.0,        0.0);        ( 472333.8, 3751351.3,
520.6,       532.0,        0.0);
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 327
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
( 472354.8, 3751351.3,      518.5,      532.0,        0.0);        ( 472377.7, 3751351.1,
516.0,       532.0,        0.0);
( 472401.7, 3751351.1,      513.6,      533.0,        0.0);        ( 472425.5, 3751351.8,
511.8,       532.0,        0.0);
( 472445.7, 3751350.7,      511.1,      532.0,        0.0);        ( 472463.2, 3751350.9,
509.4,       532.0,        0.0);
( 472484.1, 3751350.9,      507.3,      532.0,        0.0);        ( 472503.9, 3751351.3,
506.3,       532.0,        0.0);
( 472523.8, 3751351.3,      506.2,      531.0,        0.0);        ( 472543.3, 3751351.3,
506.4,       506.4,        0.0);
( 472563.2, 3751352.2,      506.1,      506.1,        0.0);        ( 472582.6, 3751352.0,
505.8,       505.8,        0.0);
( 472601.3, 3751352.0,      505.3,      505.3,        0.0);        ( 472606.8, 3751367.3,
504.3,       504.3,        0.0);
( 472607.6, 3751396.4,      504.2,      504.2,        0.0);        ( 472608.5, 3751432.1,
505.0,       505.0,        0.0);
( 472608.9, 3751462.6,      504.4,      504.4,        0.0);        ( 472609.5, 3751497.1,
505.0,       505.0,        0.0);
( 472610.7, 3751553.8,      505.4,      505.4,        0.0);        ( 472666.0, 3751554.0,
501.3,       501.3,        0.0);
( 472690.4, 3751553.6,      499.8,      499.8,        0.0);        ( 472713.5, 3751554.3,
499.2,       499.2,        0.0);
( 472734.6, 3751554.0,      497.9,      497.9,        0.0);        ( 472759.5, 3751554.0,
496.2,       496.2,        0.0);
( 472781.8, 3751554.5,      494.9,      499.0,        0.0);        ( 472849.8, 3751556.1,
495.4,       495.4,        0.0);
( 472871.8, 3751556.1,      494.9,      494.9,        0.0);        ( 472895.2, 3751555.6,
494.2,       494.2,        0.0);
( 472922.6, 3751555.9,      493.8,      493.8,        0.0);        ( 473092.4, 3751802.3,
486.1,       486.1,        0.0);
( 473204.8, 3751856.8,      481.6,      481.6,        0.0);        ( 472991.2, 3752083.3,
484.1,       484.1,        0.0);
( 473295.1, 3752052.5,      478.7,      478.7,        0.0);        ( 473356.8, 3752050.3,
476.8,       476.8,        0.0);
( 473495.1, 3751996.6,      476.0,      476.0,        0.0);        ( 473486.5, 3751917.7,
475.8,       475.8,        0.0);
( 473392.6, 3752058.2,      475.9,      475.9,        0.0);        ( 473464.3, 3752082.6,
475.2,       475.2,        0.0);
( 473550.3, 3752087.6,      473.0,      473.0,        0.0);        ( 473584.7, 3752089.8,
473.0,       473.0,        0.0);
```

```
     ( 472765.6, 3752474.1,       477.2,      495.0,         0.0);          ( 470432.2, 3750483.9,
  532.6,      532.6,        0.0);
     ( 469244.1, 3754182.8,       471.3,      485.0,         0.0);          ( 469596.8, 3750785.6,
  493.4,      493.4,        0.0);
     ( 470466.5, 3750530.3,       535.0,      535.0,         0.0);          ( 469319.3, 3749244.5,
  500.0,      500.0,        0.0);
     ( 469229.6, 3749502.2,       503.4,      503.4,         0.0);          ( 468465.4, 3749582.3,
  490.5,      490.5,        0.0);
     ( 471438.4, 3750129.8,       539.2,      539.2,         0.0);          ( 471657.5, 3749918.8,
  535.4,      535.4,        0.0);
     ( 471732.9, 3749916.5,       534.7,      534.7,         0.0);          ( 471710.3, 3750132.8,
  537.0,      537.0,        0.0);
     ( 471273.9, 3750119.8,       540.5,      540.5,
  0.0);
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

PAGE 328
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

         NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
         INCLUDED IN THE DATA FILE.

                                 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                             ***
                                              (METERS/SEC)

                                    1.54,   3.09,   5.14,   8.23,   10.80,
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                   PAGE 329
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL

```
First hour of profile data
YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/30/23
 *** AERMET - VERSION  16216 ***
 ***                                                                    ***        11:18:46

                    PAGE 330
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL       ***
                                    INCLUDING SOURCE(S):    VOL1        , VOL2        ,
                                    VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10       ,
                  VOL11       , VOL12       , VOL13       ,
                  VOL14       , VOL15       , VOL16       , VOL17       , VOL18       ,
                  VOL19       , VOL20       , VOL21       ,
                  VOL22       , VOL23       , VOL24       , VOL25       , VOL26       ,
                  VOL27       , VOL28       ,  . . .      ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF DPM       IN
                              MICROGRAMS/M**3                              **

       X-COORD (M)   Y-COORD (M)      CONC                    X-COORD (M)   Y-COORD
       (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
       472283.74   3752640.98     0.00238                    472482.23
       3752398.04       0.00470
       472477.97   3752183.12     0.00757                    472148.10
       3752531.53       0.00480
       472052.12   3752531.22     0.00569                    471975.52
       3752531.22       0.00617
       471896.06   3752530.90     0.00638                    471840.76
       3752529.94       0.00650
       471816.60   3752527.08     0.00663                    471736.82
       3752557.91       0.00543
       471696.59   3752558.87     0.00544                    471627.29
       3752556.22       0.00571
       471584.60   3752556.76     0.00575                    471560.01
       3752556.22       0.00575
       471534.35   3752554.87     0.00573                    471514.89
       3752554.87       0.00565
       471486.79   3752555.68     0.00554                    471465.72
       3752555.41       0.00549
       471442.21   3752554.98     0.00541                    471419.71
       3752552.46       0.00544
       471394.22   3752552.91     0.00539                    471363.44
       3752552.46       0.00539
       471332.68   3752553.31     0.00531                    471307.62
       3752552.94       0.00529
       471284.05   3752552.70     0.00527                    471261.98
       3752552.70       0.00525
       471241.90   3752552.70     0.00524                    471223.15
       3752552.86       0.00523
       471205.90   3752552.86     0.00523                    471173.21
       3752552.37       0.00525
       471135.70   3752552.53     0.00517                    471093.22
       3752551.54       0.00488
       471059.37   3752551.70     0.00447                    471020.54
```

```
                  3752551.20          0.00390
470981.05      3752563.65          0.00306                      470980.39
                  3752552.20          0.00328
470980.06      3752535.61          0.00366                      470979.89
                  3752517.19          0.00418
470980.06      3752499.76          0.00479                      470980.22
                  3752479.85          0.00565
470980.39      3752459.44          0.00672                      470980.22
                  3752433.22          0.00815
470980.06      3752404.02          0.00938                      470927.12
                  3752402.69          0.00517
470907.87      3752402.69          0.00444                      470887.30
                  3752402.69          0.00386
470869.71      3752402.03          0.00349                      470849.63
                  3752401.86          0.00314
470829.39      3752402.19          0.00285                      470811.63
                  3752402.19          0.00264
470791.55      3752402.53          0.00243                      470773.63
                  3752401.86          0.00228
470749.24      3752402.19          0.00209                      470727.72
                  3752391.74          0.00200
470733.04      3752338.97          0.00224                      470733.70
                  3752320.55          0.00232
470734.20      3752291.01          0.00245                      470733.20
                  3752265.78          0.00255
470732.87      3752218.81          0.00274                      470732.54
                  3752182.14          0.00290
470732.37      3752145.29          0.00307                      470692.38
                  3752144.80          0.00265
470670.14      3752144.46          0.00245                      470651.72
                  3752144.30          0.00231
470633.46      3752144.13          0.00218                      470615.54
                  3752143.97          0.00207
470595.95      3752143.30          0.00195                      470577.03
                  3752143.47          0.00185
470553.63      3752143.47          0.00174                      470528.57
                  3752142.64          0.00164
470507.99      3752142.80          0.00156                      470485.59
                  3752142.47          0.00148
470471.60      3752131.63          0.00145                      470471.60
                  3752109.21          0.00148
470471.32      3752085.22          0.00151                      470471.46
                  3752037.68          0.00157
470471.74      3752013.00          0.00160                      470470.89
                  3751987.18          0.00163
470470.89      3751965.74          0.00165                      470470.75
                  3751944.44          0.00167
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:18:46

                PAGE 331
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                        SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                              VOL3   , VOL4   , VOL5   ,
             VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
             VOL11   , VOL12   , VOL13   ,
             VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
             VOL19   , VOL20   , VOL21   ,
             VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
             VOL27   , VOL28   , . . .   ,

** CONC OF DPM   IN
MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
470470.61	3751924.27	0.00169	470470.47	3751905.93	0.00171
470470.89	3751884.06	0.00173	470470.61	3751864.03	0.00175
470470.33	3751844.00	0.00176	470470.19	3751824.53	0.00177
470470.33	3751805.77	0.00179	470470.33	3751788.00	0.00180
470470.33	3751761.19	0.00181	470471.03	3751741.87	0.00182
470470.05	3751722.82	0.00183	470470.19	3751703.36	0.00184
470470.19	3751683.75	0.00184	470470.33	3751664.28	0.00185
470470.33	3751642.41	0.00185	470470.47	3751621.82	0.00185
470470.19	3751599.81	0.00185	470470.61	3751578.79	0.00185
470469.62	3751555.94	0.00185	470470.05	3751512.49	0.00184
470468.64	3751414.59	0.00180	470469.76	3751385.25	0.00180
470468.65	3751358.95	0.00178	470462.93	3751325.56	0.00174
470461.98	3751310.62	0.00173	470462.61	3751296.63	0.00172
470462.61	3751283.28	0.00171	470462.61	3751269.92	0.00170
470462.93	3751254.35	0.00169	470461.98	3751240.67	0.00168
470463.25	3751227.64	0.00168	470756.39	3751290.59	0.00369
470797.72	3751268.33	0.00420	470891.19	3751226.38	0.00616
470940.78	3751191.82	0.00800	471000.61	3750923.63	0.00407
471029.26	3750923.63	0.00415	471056.29	3750923.90	0.00413
471077.91	3750924.44	0.00407	471097.64	3750924.44	0.00398
471118.18	3750924.98	0.00386	471138.99	3750927.42	0.00381
471160.07	3750928.77	0.00377	471181.15	3750931.47	0.00376
471201.69	3750930.93	0.00370	471222.50	3750931.47	0.00368
471244.13	3750931.20	0.00363	471264.40	3750931.74	0.00358
471284.40	3750931.74	0.00353	471305.75	3750931.74	0.00348
471324.67	3750930.93	0.00344	471343.05	3750930.12	0.00340
471363.86	3750929.04	0.00333	471381.96	3750928.77	0.00327
471400.88	3750928.23	0.00320	471421.15	3750927.96	0.00313
471440.59	3750928.11	0.00307	471461.83		

```
     3750927.45        0.00299
   471479.76    3750927.95       0.00293                471499.68
     3750927.62        0.00285
   471519.26    3750928.78       0.00280                471537.02
     3750929.61        0.00272
   471556.77    3750930.94       0.00265                471580.68
     3750934.09        0.00257
   471624.00    3750940.23       0.00246                471795.90
     3750950.11        0.00212
   471796.29    3750967.88       0.00227                471796.69
     3750987.22        0.00245
   471797.47    3751006.75       0.00267                471796.69
     3751025.30        0.00289
   471795.90    3751046.40       0.00317                471796.69
     3751072.96        0.00357
   471797.47    3751143.85       0.00508                471833.01
     3751143.85        0.00484
   471867.38    3751144.05       0.00466                471891.02
     3751144.44        0.00456
   471916.60    3751144.24       0.00444                471939.45
     3751144.24        0.00433
   471963.08    3751144.44       0.00423                471984.17
     3751144.05        0.00412
```

                         *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   VOL1   , VOL2   ,
                               VOL3   , VOL4   , VOL5   ,
               VOL6   , VOL7   , VOL8   , VOL9   , VOL10   ,
               VOL11   , VOL12   , VOL13   ,
               VOL14   , VOL15   , VOL16   , VOL17   , VOL18   ,
               VOL19   , VOL20   , VOL21   ,
               VOL22   , VOL23   , VOL24   , VOL25   , VOL26   ,
               VOL27   , VOL28   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF DPM   IN
                         MICROGRAMS/M**3   **

     X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD
       (M)   CONC
- -
- - - - - - - - - - - - - - - -
     471999.02   3751163.38   0.00432   472000.19
     3751199.12   0.00483
     471999.80   3751230.56   0.00533   472000.38
     3751251.46   0.00567
     472000.19   3751281.15   0.00618   472001.95
     3751347.94   0.00746
     472036.90   3751348.52   0.00697   472063.07
     3751349.31   0.00665
     472084.56   3751348.33   0.00640   472104.87
     3751348.72   0.00622
     472127.33   3751348.52   0.00601   472150.76
     3751349.70   0.00584
     472171.47   3751349.50   0.00567   472194.12
     3751349.11   0.00550
     472222.63   3751348.72   0.00530   472247.83

```
                 3751349.50           0.00515
 472269.70     3751349.11          0.00502                      472290.40
                 3751350.28           0.00490
 472313.64     3751350.48          0.00476                      472333.76
                 3751351.26           0.00465
 472354.85     3751351.26          0.00455                      472377.70
                 3751351.06           0.00444
 472401.72     3751351.06          0.00433                      472425.55
                 3751351.84           0.00424
 472445.67     3751350.67          0.00414                      472463.24
                 3751350.87           0.00407
 472484.14     3751350.87          0.00398                      472503.87
                 3751351.26           0.00391
 472523.79     3751351.26          0.00383                      472543.32
                 3751351.26           0.00375
 472563.24     3751352.24          0.00368                      472582.57
                 3751352.04           0.00361
 472601.32     3751352.04          0.00354                      472606.79
                 3751367.27           0.00363
 472607.57     3751396.37          0.00385                      472608.55
                 3751432.11           0.00414
 472608.94     3751462.58          0.00443                      472609.52
                 3751497.15           0.00479
 472610.70     3751553.78          0.00555                      472665.97
                 3751553.98           0.00528
 472690.38     3751553.59          0.00515                      472713.50
                 3751554.27           0.00503
 472734.64     3751554.04          0.00492                      472759.46
                 3751554.04           0.00479
 472781.75     3751554.50          0.00469                      472849.76
                 3751556.11           0.00435
 472871.82     3751556.11          0.00425                      472895.25
                 3751555.65           0.00414
 472922.60     3751555.88          0.00402                      473092.41
                 3751802.31           0.00749
 473204.80     3751856.81          0.00656                      472991.21
                 3752083.31           0.00704
 473295.12     3752052.49          0.00942                      473356.76
                 3752050.34           0.01060
 473495.10     3751996.58          0.00745                      473486.50
                 3751917.74           0.00449
 473392.60     3752058.22          0.00899                      473464.28
                 3752082.59           0.00605
 473550.29     3752087.61          0.00618                      473584.69
                 3752089.76           0.00627
 472765.59     3752474.09          0.00256                      470432.16
                 3750483.93           0.00089
 469244.06     3754182.82          0.00019                      469596.75
                 3750785.65           0.00058
 470466.55     3750530.27          0.00095                      469319.29
                 3749244.53           0.00031
 469229.64     3749502.19          0.00034                      468465.38
                 3749582.33           0.00030
 471438.37     3750129.76          0.00061                      471657.54
                 3749918.78           0.00045
 471732.91     3749916.52          0.00044                      471710.30
                 3750132.80           0.00053
 471273.89     3750119.77
                 0.00066
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/30/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:18:46

                    PAGE 333

```
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS
                                        ***


                              ** CONC OF DPM       IN
                              MICROGRAMS/M**3                                    **


              NETWORK
GROUP ID                          AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL,
ZFLAG) OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS       0.01060 AT (  473356.76,  3752050.34,    476.76,
476.76,     0.00)  DC
         2ND HIGHEST VALUE IS       0.00942 AT (  473295.12,  3752052.49,    478.66,
         478.66,    0.00)  DC
         3RD HIGHEST VALUE IS       0.00938 AT (  470980.06,  3752404.02,    506.00,
         506.00,    0.00)  DC
         4TH HIGHEST VALUE IS       0.00899 AT (  473392.60,  3752058.22,    475.95,
         475.95,    0.00)  DC
         5TH HIGHEST VALUE IS       0.00815 AT (  470980.22,  3752433.22,    505.45,
         505.45,    0.00)  DC
         6TH HIGHEST VALUE IS       0.00800 AT (  470940.78,  3751191.82,    512.12,
         512.12,    0.00)  DC
         7TH HIGHEST VALUE IS       0.00757 AT (  472477.97,  3752183.12,    505.05,
         505.05,    0.00)  DC
         8TH HIGHEST VALUE IS       0.00749 AT (  473092.41,  3751802.31,    486.05,
         486.05,    0.00)  DC
         9TH HIGHEST VALUE IS       0.00746 AT (  472001.95,  3751347.94,    536.97,
         536.97,    0.00)  DC
        10TH HIGHEST VALUE IS       0.00745 AT (  473495.10,  3751996.58,    476.00,
         476.00,    0.00)  DC


  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
 ▣▣ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/30/23
  *** AERMET - VERSION  16216 ***
  ***                                                      ***        11:18:46


                    PAGE 334
  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

  *** Message Summary : AERMOD Model Execution ***

   --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of          2 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


     ******** FATAL ERROR MESSAGES ********
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 10/25/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064-15 Ops HRA Unmit\14064-15
Ops HRA Unmit.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14064-15 Ops HRA Unmit.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Bldg B Idle N
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0004016
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471215.117, 3751821.365, 518.16, 3.49, 4.00
** 471722.155, 3751826.378, 536.07, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0012023     VOLUME     471219.412 3751821.407 518.32
   LOCATION L0012024     VOLUME     471228.002 3751821.492 518.94
   LOCATION L0012025     VOLUME     471236.591 3751821.577 519.57
   LOCATION L0012026     VOLUME     471245.181 3751821.662 520.18
   LOCATION L0012027     VOLUME     471253.771 3751821.747 521.08
   LOCATION L0012028     VOLUME     471262.360 3751821.832 522.26
   LOCATION L0012029     VOLUME     471270.950 3751821.917 523.45
   LOCATION L0012030     VOLUME     471279.539 3751822.002 524.64
   LOCATION L0012031     VOLUME     471288.129 3751822.087 524.46
   LOCATION L0012032     VOLUME     471296.718 3751822.172 524.27
   LOCATION L0012033     VOLUME     471305.308 3751822.257 524.09
   LOCATION L0012034     VOLUME     471313.898 3751822.341 523.97
   LOCATION L0012035     VOLUME     471322.487 3751822.426 523.92
   LOCATION L0012036     VOLUME     471331.077 3751822.511 523.86
   LOCATION L0012037     VOLUME     471339.666 3751822.596 523.80
```

```
   LOCATION L0012038      VOLUME    471348.256 3751822.681 523.86
   LOCATION L0012039      VOLUME    471356.846 3751822.766 523.91
   LOCATION L0012040      VOLUME    471365.435 3751822.851 523.97
   LOCATION L0012041      VOLUME    471374.025 3751822.936 524.03
   LOCATION L0012042      VOLUME    471382.614 3751823.021 524.09
   LOCATION L0012043      VOLUME    471391.204 3751823.106 524.16
   LOCATION L0012044      VOLUME    471399.793 3751823.191 524.23
   LOCATION L0012045      VOLUME    471408.383 3751823.276 524.74
   LOCATION L0012046      VOLUME    471416.973 3751823.361 525.26
   LOCATION L0012047      VOLUME    471425.562 3751823.446 525.76
   LOCATION L0012048      VOLUME    471434.152 3751823.530 526.31
   LOCATION L0012049      VOLUME    471442.741 3751823.615 526.88
   LOCATION L0012050      VOLUME    471451.331 3751823.700 527.45
   LOCATION L0012051      VOLUME    471459.920 3751823.785 528.02
   LOCATION L0012052      VOLUME    471468.510 3751823.870 528.37
   LOCATION L0012053      VOLUME    471477.100 3751823.955 528.73
   LOCATION L0012054      VOLUME    471485.689 3751824.040 529.09
   LOCATION L0012055      VOLUME    471494.279 3751824.125 529.52
   LOCATION L0012056      VOLUME    471502.868 3751824.210 530.03
   LOCATION L0012057      VOLUME    471511.458 3751824.295 530.53
   LOCATION L0012058      VOLUME    471520.048 3751824.380 531.04
   LOCATION L0012059      VOLUME    471528.637 3751824.465 531.68
   LOCATION L0012060      VOLUME    471537.227 3751824.550 532.33
   LOCATION L0012061      VOLUME    471545.816 3751824.634 532.98
   LOCATION L0012062      VOLUME    471554.406 3751824.719 533.47
   LOCATION L0012063      VOLUME    471562.995 3751824.804 533.84
   LOCATION L0012064      VOLUME    471571.585 3751824.889 534.21
   LOCATION L0012065      VOLUME    471580.175 3751824.974 534.57
   LOCATION L0012066      VOLUME    471588.764 3751825.059 534.78
   LOCATION L0012067      VOLUME    471597.354 3751825.144 534.99
   LOCATION L0012068      VOLUME    471605.943 3751825.229 535.20
   LOCATION L0012069      VOLUME    471614.533 3751825.314 535.41
   LOCATION L0012070      VOLUME    471623.123 3751825.399 535.61
   LOCATION L0012071      VOLUME    471631.712 3751825.484 535.82
   LOCATION L0012072      VOLUME    471640.302 3751825.569 536.00
   LOCATION L0012073      VOLUME    471648.891 3751825.654 536.00
   LOCATION L0012074      VOLUME    471657.481 3751825.739 536.00
   LOCATION L0012075      VOLUME    471666.070 3751825.823 536.00
   LOCATION L0012076      VOLUME    471674.660 3751825.908 536.00
   LOCATION L0012077      VOLUME    471683.250 3751825.993 536.00
   LOCATION L0012078      VOLUME    471691.839 3751826.078 536.00
   LOCATION L0012079      VOLUME    471700.429 3751826.163 536.00
   LOCATION L0012080      VOLUME    471709.018 3751826.248 536.00
   LOCATION L0012081      VOLUME    471717.608 3751826.333 536.00
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Bldg B Idle E
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0004016
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471731.500, 3751810.802, 536.04, 3.49, 4.00
** 471733.935, 3751617.224, 533.91, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0012082      VOLUME    471731.554 3751806.507 536.07
   LOCATION L0012083      VOLUME    471731.662 3751797.918 536.07
   LOCATION L0012084      VOLUME    471731.770 3751789.328 536.07
   LOCATION L0012085      VOLUME    471731.878 3751780.739 536.06
   LOCATION L0012086      VOLUME    471731.986 3751772.150 536.04
   LOCATION L0012087      VOLUME    471732.094 3751763.560 536.02
   LOCATION L0012088      VOLUME    471732.202 3751754.971 535.95
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   LOCATION L0012089      VOLUME      471732.310 3751746.382 535.69
   LOCATION L0012090      VOLUME      471732.418 3751737.793 535.43
   LOCATION L0012091      VOLUME      471732.527 3751729.203 535.18
   LOCATION L0012092      VOLUME      471732.635 3751720.614 535.10
   LOCATION L0012093      VOLUME      471732.743 3751712.025 535.11
   LOCATION L0012094      VOLUME      471732.851 3751703.435 535.11
   LOCATION L0012095      VOLUME      471732.959 3751694.846 535.11
   LOCATION L0012096      VOLUME      471733.067 3751686.257 535.12
   LOCATION L0012097      VOLUME      471733.175 3751677.667 535.12
   LOCATION L0012098      VOLUME      471733.283 3751669.078 535.12
   LOCATION L0012099      VOLUME      471733.391 3751660.489 534.92
   LOCATION L0012100      VOLUME      471733.499 3751651.899 534.64
   LOCATION L0012101      VOLUME      471733.607 3751643.310 534.36
   LOCATION L0012102      VOLUME      471733.715 3751634.721 534.14
   LOCATION L0012103      VOLUME      471733.823 3751626.131 534.14
   LOCATION L0012104      VOLUME      471733.931 3751617.542 534.15
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Bldg B Idle S
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0004016
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471217.858, 3751597.356, 526.24, 3.49, 4.00
** 471724.383, 3751599.262, 533.76, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0012105      VOLUME      471222.153 3751597.372 526.54
   LOCATION L0012106      VOLUME      471230.743 3751597.404 527.31
   LOCATION L0012107      VOLUME      471239.333 3751597.436 528.08
   LOCATION L0012108      VOLUME      471247.923 3751597.469 528.85
   LOCATION L0012109      VOLUME      471256.513 3751597.501 529.23
   LOCATION L0012110      VOLUME      471265.103 3751597.533 529.52
   LOCATION L0012111      VOLUME      471273.693 3751597.566 529.80
   LOCATION L0012112      VOLUME      471282.283 3751597.598 530.22
   LOCATION L0012113      VOLUME      471290.873 3751597.630 530.91
   LOCATION L0012114      VOLUME      471299.463 3751597.663 531.59
   LOCATION L0012115      VOLUME      471308.053 3751597.695 532.28
   LOCATION L0012116      VOLUME      471316.643 3751597.727 533.42
   LOCATION L0012117      VOLUME      471325.233 3751597.760 534.65
   LOCATION L0012118      VOLUME      471333.823 3751597.792 535.89
   LOCATION L0012119      VOLUME      471342.412 3751597.824 536.73
   LOCATION L0012120      VOLUME      471351.002 3751597.857 536.82
   LOCATION L0012121      VOLUME      471359.592 3751597.889 536.90
   LOCATION L0012122      VOLUME      471368.182 3751597.921 536.99
   LOCATION L0012123      VOLUME      471376.772 3751597.954 536.59
   LOCATION L0012124      VOLUME      471385.362 3751597.986 536.10
   LOCATION L0012125      VOLUME      471393.952 3751598.018 535.61
   LOCATION L0012126      VOLUME      471402.542 3751598.051 535.09
   LOCATION L0012127      VOLUME      471411.132 3751598.083 534.51
   LOCATION L0012128      VOLUME      471419.722 3751598.115 533.94
   LOCATION L0012129      VOLUME      471428.312 3751598.148 533.37
   LOCATION L0012130      VOLUME      471436.902 3751598.180 533.04
   LOCATION L0012131      VOLUME      471445.492 3751598.212 532.75
   LOCATION L0012132      VOLUME      471454.082 3751598.245 532.46
   LOCATION L0012133      VOLUME      471462.672 3751598.277 532.07
   LOCATION L0012134      VOLUME      471471.262 3751598.309 531.50
   LOCATION L0012135      VOLUME      471479.851 3751598.342 530.92
   LOCATION L0012136      VOLUME      471488.441 3751598.374 530.35
   LOCATION L0012137      VOLUME      471497.031 3751598.406 530.27
   LOCATION L0012138      VOLUME      471505.621 3751598.439 530.27
   LOCATION L0012139      VOLUME      471514.211 3751598.471 530.27
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   LOCATION L0012140      VOLUME       471522.801 3751598.503 530.16
   LOCATION L0012141      VOLUME       471531.391 3751598.536 529.88
   LOCATION L0012142      VOLUME       471539.981 3751598.568 529.59
   LOCATION L0012143      VOLUME       471548.571 3751598.600 529.30
   LOCATION L0012144      VOLUME       471557.161 3751598.633 529.27
   LOCATION L0012145      VOLUME       471565.751 3751598.665 529.27
   LOCATION L0012146      VOLUME       471574.341 3751598.697 529.27
   LOCATION L0012147      VOLUME       471582.931 3751598.730 529.32
   LOCATION L0012148      VOLUME       471591.521 3751598.762 529.45
   LOCATION L0012149      VOLUME       471600.111 3751598.794 529.59
   LOCATION L0012150      VOLUME       471608.701 3751598.827 529.73
   LOCATION L0012151      VOLUME       471617.291 3751598.859 529.74
   LOCATION L0012152      VOLUME       471625.880 3751598.891 529.74
   LOCATION L0012153      VOLUME       471634.470 3751598.924 529.74
   LOCATION L0012154      VOLUME       471643.060 3751598.956 529.83
   LOCATION L0012155      VOLUME       471651.650 3751598.988 530.04
   LOCATION L0012156      VOLUME       471660.240 3751599.021 530.26
   LOCATION L0012157      VOLUME       471668.830 3751599.053 530.48
   LOCATION L0012158      VOLUME       471677.420 3751599.085 530.82
   LOCATION L0012159      VOLUME       471686.010 3751599.118 531.18
   LOCATION L0012160      VOLUME       471694.600 3751599.150 531.54
   LOCATION L0012161      VOLUME       471703.190 3751599.182 531.99
   LOCATION L0012162      VOLUME       471711.780 3751599.215 532.57
   LOCATION L0012163      VOLUME       471720.370 3751599.247 533.14
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Bldg A Idle N
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0005086
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471251.147, 3752185.400, 518.98, 3.49, 4.00
** 471719.138, 3752190.238, 525.15, 3.49, 4.00
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   LOCATION L0012164      VOLUME       471255.441 3752185.444 518.71
   LOCATION L0012165      VOLUME       471264.031 3752185.533 518.70
   LOCATION L0012166      VOLUME       471272.621 3752185.622 518.70
   LOCATION L0012167      VOLUME       471281.210 3752185.711 518.79
   LOCATION L0012168      VOLUME       471289.800 3752185.799 519.27
   LOCATION L0012169      VOLUME       471298.389 3752185.888 519.75
   LOCATION L0012170      VOLUME       471306.979 3752185.977 520.23
   LOCATION L0012171      VOLUME       471315.568 3752186.066 520.71
   LOCATION L0012172      VOLUME       471324.158 3752186.155 521.19
   LOCATION L0012173      VOLUME       471332.747 3752186.243 521.66
   LOCATION L0012174      VOLUME       471341.337 3752186.332 522.11
   LOCATION L0012175      VOLUME       471349.926 3752186.421 522.48
   LOCATION L0012176      VOLUME       471358.516 3752186.510 522.85
   LOCATION L0012177      VOLUME       471367.105 3752186.599 523.23
   LOCATION L0012178      VOLUME       471375.695 3752186.687 523.54
   LOCATION L0012179      VOLUME       471384.285 3752186.776 523.82
   LOCATION L0012180      VOLUME       471392.874 3752186.865 524.10
   LOCATION L0012181      VOLUME       471401.464 3752186.954 524.44
   LOCATION L0012182      VOLUME       471410.053 3752187.043 525.01
   LOCATION L0012183      VOLUME       471418.643 3752187.131 525.57
   LOCATION L0012184      VOLUME       471427.232 3752187.220 526.14
   LOCATION L0012185      VOLUME       471435.822 3752187.309 526.63
   LOCATION L0012186      VOLUME       471444.411 3752187.398 527.10
   LOCATION L0012187      VOLUME       471453.001 3752187.487 527.56
   LOCATION L0012188      VOLUME       471461.590 3752187.575 527.93
   LOCATION L0012189      VOLUME       471470.180 3752187.664 527.99
   LOCATION L0012190      VOLUME       471478.769 3752187.753 528.05
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   LOCATION L0012191      VOLUME      471487.359 3752187.842 528.11
   LOCATION L0012192      VOLUME      471495.949 3752187.931 528.20
   LOCATION L0012193      VOLUME      471504.538 3752188.019 528.29
   LOCATION L0012194      VOLUME      471513.128 3752188.108 528.39
   LOCATION L0012195      VOLUME      471521.717 3752188.197 528.37
   LOCATION L0012196      VOLUME      471530.307 3752188.286 528.01
   LOCATION L0012197      VOLUME      471538.896 3752188.375 527.65
   LOCATION L0012198      VOLUME      471547.486 3752188.463 527.30
   LOCATION L0012199      VOLUME      471556.075 3752188.552 526.77
   LOCATION L0012200      VOLUME      471564.665 3752188.641 526.19
   LOCATION L0012201      VOLUME      471573.254 3752188.730 525.61
   LOCATION L0012202      VOLUME      471581.844 3752188.819 525.26
   LOCATION L0012203      VOLUME      471590.434 3752188.907 525.54
   LOCATION L0012204      VOLUME      471599.023 3752188.996 525.82
   LOCATION L0012205      VOLUME      471607.613 3752189.085 526.11
   LOCATION L0012206      VOLUME      471616.202 3752189.174 526.26
   LOCATION L0012207      VOLUME      471624.792 3752189.263 526.37
   LOCATION L0012208      VOLUME      471633.381 3752189.351 526.49
   LOCATION L0012209      VOLUME      471641.971 3752189.440 526.57
   LOCATION L0012210      VOLUME      471650.560 3752189.529 526.57
   LOCATION L0012211      VOLUME      471659.150 3752189.618 526.57
   LOCATION L0012212      VOLUME      471667.739 3752189.707 526.56
   LOCATION L0012213      VOLUME      471676.329 3752189.795 526.43
   LOCATION L0012214      VOLUME      471684.918 3752189.884 526.27
   LOCATION L0012215      VOLUME      471693.508 3752189.973 526.11
   LOCATION L0012216      VOLUME      471702.098 3752190.062 525.83
   LOCATION L0012217      VOLUME      471710.687 3752190.151 525.26
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Bldg A Idle S
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0005086
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471252.466, 3751968.998, 522.95, 3.49, 4.00
** 471720.018, 3751974.716, 531.23, 3.49, 4.00
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   LOCATION L0012218      VOLUME      471256.761 3751969.050 522.36
   LOCATION L0012219      VOLUME      471265.350 3751969.155 521.87
   LOCATION L0012220      VOLUME      471273.940 3751969.260 521.40
   LOCATION L0012221      VOLUME      471282.529 3751969.365 521.19
   LOCATION L0012222      VOLUME      471291.118 3751969.470 521.48
   LOCATION L0012223      VOLUME      471299.708 3751969.575 521.77
   LOCATION L0012224      VOLUME      471308.297 3751969.680 522.06
   LOCATION L0012225      VOLUME      471316.886 3751969.785 522.35
   LOCATION L0012226      VOLUME      471325.476 3751969.891 522.64
   LOCATION L0012227      VOLUME      471334.065 3751969.996 522.93
   LOCATION L0012228      VOLUME      471342.654 3751970.101 523.23
   LOCATION L0012229      VOLUME      471351.244 3751970.206 523.55
   LOCATION L0012230      VOLUME      471359.833 3751970.311 523.88
   LOCATION L0012231      VOLUME      471368.423 3751970.416 524.21
   LOCATION L0012232      VOLUME      471377.012 3751970.521 525.00
   LOCATION L0012233      VOLUME      471385.601 3751970.626 525.87
   LOCATION L0012234      VOLUME      471394.191 3751970.731 526.74
   LOCATION L0012235      VOLUME      471402.780 3751970.836 527.39
   LOCATION L0012236      VOLUME      471411.369 3751970.941 527.68
   LOCATION L0012237      VOLUME      471419.959 3751971.046 527.97
   LOCATION L0012238      VOLUME      471428.548 3751971.151 528.27
   LOCATION L0012239      VOLUME      471437.137 3751971.256 528.74
   LOCATION L0012240      VOLUME      471445.727 3751971.361 529.22
   LOCATION L0012241      VOLUME      471454.316 3751971.466 529.71
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   LOCATION L0012242      VOLUME     471462.905 3751971.571 530.09
   LOCATION L0012243      VOLUME     471471.495 3751971.676 530.33
   LOCATION L0012244      VOLUME     471480.084 3751971.781 530.57
   LOCATION L0012245      VOLUME     471488.674 3751971.886 530.80
   LOCATION L0012246      VOLUME     471497.263 3751971.991 531.03
   LOCATION L0012247      VOLUME     471505.852 3751972.096 531.26
   LOCATION L0012248      VOLUME     471514.442 3751972.201 531.49
   LOCATION L0012249      VOLUME     471523.031 3751972.307 531.90
   LOCATION L0012250      VOLUME     471531.620 3751972.412 532.57
   LOCATION L0012251      VOLUME     471540.210 3751972.517 533.25
   LOCATION L0012252      VOLUME     471548.799 3751972.622 533.94
   LOCATION L0012253      VOLUME     471557.388 3751972.727 534.52
   LOCATION L0012254      VOLUME     471565.978 3751972.832 535.09
   LOCATION L0012255      VOLUME     471574.567 3751972.937 535.67
   LOCATION L0012256      VOLUME     471583.156 3751973.042 536.00
   LOCATION L0012257      VOLUME     471591.746 3751973.147 536.00
   LOCATION L0012258      VOLUME     471600.335 3751973.252 536.00
   LOCATION L0012259      VOLUME     471608.925 3751973.357 536.00
   LOCATION L0012260      VOLUME     471617.514 3751973.462 535.73
   LOCATION L0012261      VOLUME     471626.103 3751973.567 535.45
   LOCATION L0012262      VOLUME     471634.693 3751973.672 535.16
   LOCATION L0012263      VOLUME     471643.282 3751973.777 534.75
   LOCATION L0012264      VOLUME     471651.871 3751973.882 534.18
   LOCATION L0012265      VOLUME     471660.461 3751973.987 533.61
   LOCATION L0012266      VOLUME     471669.050 3751974.092 533.03
   LOCATION L0012267      VOLUME     471677.639 3751974.197 532.73
   LOCATION L0012268      VOLUME     471686.229 3751974.302 532.44
   LOCATION L0012269      VOLUME     471694.818 3751974.407 532.16
   LOCATION L0012270      VOLUME     471703.407 3751974.512 531.84
   LOCATION L0012271      VOLUME     471711.997 3751974.617 531.48
** End of LINE VOLUME Source ID = SLINE5
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Bldg C Idle W
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0002506
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471844.958, 3752167.382, 521.40, 3.49, 4.00
** 471846.645, 3751987.702, 534.85, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0012272      VOLUME     471844.998 3752163.087 522.13
   LOCATION L0012273      VOLUME     471845.078 3752154.498 522.95
   LOCATION L0012274      VOLUME     471845.159 3752145.908 523.76
   LOCATION L0012275      VOLUME     471845.240 3752137.319 524.38
   LOCATION L0012276      VOLUME     471845.320 3752128.729 524.99
   LOCATION L0012277      VOLUME     471845.401 3752120.139 525.61
   LOCATION L0012278      VOLUME     471845.482 3752111.550 526.18
   LOCATION L0012279      VOLUME     471845.562 3752102.960 526.72
   LOCATION L0012280      VOLUME     471845.643 3752094.370 527.26
   LOCATION L0012281      VOLUME     471845.724 3752085.781 527.80
   LOCATION L0012282      VOLUME     471845.804 3752077.191 528.34
   LOCATION L0012283      VOLUME     471845.885 3752068.602 528.88
   LOCATION L0012284      VOLUME     471845.966 3752060.012 529.43
   LOCATION L0012285      VOLUME     471846.046 3752051.422 529.97
   LOCATION L0012286      VOLUME     471846.127 3752042.833 530.52
   LOCATION L0012287      VOLUME     471846.208 3752034.243 531.07
   LOCATION L0012288      VOLUME     471846.288 3752025.654 531.66
   LOCATION L0012289      VOLUME     471846.369 3752017.064 532.50
   LOCATION L0012290      VOLUME     471846.450 3752008.474 533.34
   LOCATION L0012291      VOLUME     471846.530 3751999.885 534.18
   LOCATION L0012292      VOLUME     471846.611 3751991.295 534.70
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** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Bldg D Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.388E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471848.332, 3751808.021, 538.89, 3.49, 4.00
** 471849.175, 3751696.670, 539.00, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0011933      VOLUME    471848.364 3751803.726 538.96
   LOCATION L0011934      VOLUME    471848.429 3751795.136 538.96
   LOCATION L0011935      VOLUME    471848.494 3751786.547 538.96
   LOCATION L0011936      VOLUME    471848.560 3751777.957 538.97
   LOCATION L0011937      VOLUME    471848.625 3751769.367 538.97
   LOCATION L0011938      VOLUME    471848.690 3751760.777 538.97
   LOCATION L0011939      VOLUME    471848.755 3751752.188 538.97
   LOCATION L0011940      VOLUME    471848.820 3751743.598 538.98
   LOCATION L0011941      VOLUME    471848.885 3751735.008 538.98
   LOCATION L0011942      VOLUME    471848.950 3751726.418 538.98
   LOCATION L0011943      VOLUME    471849.015 3751717.829 538.98
   LOCATION L0011944      VOLUME    471849.080 3751709.239 538.98
   LOCATION L0011945      VOLUME    471849.145 3751700.649 538.99
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Bldg E Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.235E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471495.234, 3751418.628, 533.74, 3.49, 4.00
** 471496.921, 3751256.648, 527.16, 3.49, 4.00
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   LOCATION L0011946      VOLUME    471495.278 3751414.333 533.29
   LOCATION L0011947      VOLUME    471495.368 3751405.744 533.05
   LOCATION L0011948      VOLUME    471495.457 3751397.154 532.82
   LOCATION L0011949      VOLUME    471495.547 3751388.565 532.26
   LOCATION L0011950      VOLUME    471495.636 3751379.975 531.69
   LOCATION L0011951      VOLUME    471495.726 3751371.386 531.11
   LOCATION L0011952      VOLUME    471495.815 3751362.796 530.66
   LOCATION L0011953      VOLUME    471495.905 3751354.206 530.37
   LOCATION L0011954      VOLUME    471495.994 3751345.617 530.08
   LOCATION L0011955      VOLUME    471496.084 3751337.027 529.79
   LOCATION L0011956      VOLUME    471496.173 3751328.438 529.35
   LOCATION L0011957      VOLUME    471496.263 3751319.848 528.91
   LOCATION L0011958      VOLUME    471496.352 3751311.259 528.46
   LOCATION L0011959      VOLUME    471496.442 3751302.669 528.23
   LOCATION L0011960      VOLUME    471496.531 3751294.080 528.23
   LOCATION L0011961      VOLUME    471496.621 3751285.490 528.24
   LOCATION L0011962      VOLUME    471496.710 3751276.901 528.24
   LOCATION L0011963      VOLUME    471496.799 3751268.311 527.96
   LOCATION L0011964      VOLUME    471496.889 3751259.722 527.68
** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
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** DESCRSRC Bldg F Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.235E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471394.840, 3751418.628, 536.93, 3.49, 4.00
** 471396.527, 3751256.648, 524.17, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011965      VOLUME     471394.884 3751414.333 536.74
   LOCATION L0011966      VOLUME     471394.974 3751405.744 536.46
   LOCATION L0011967      VOLUME     471395.063 3751397.154 536.17
   LOCATION L0011968      VOLUME     471395.153 3751388.565 535.57
   LOCATION L0011969      VOLUME     471395.242 3751379.975 534.95
   LOCATION L0011970      VOLUME     471395.332 3751371.386 534.34
   LOCATION L0011971      VOLUME     471395.421 3751362.796 533.49
   LOCATION L0011972      VOLUME     471395.511 3751354.206 532.34
   LOCATION L0011973      VOLUME     471395.600 3751345.617 531.19
   LOCATION L0011974      VOLUME     471395.690 3751337.027 530.05
   LOCATION L0011975      VOLUME     471395.779 3751328.438 529.45
   LOCATION L0011976      VOLUME     471395.869 3751319.848 528.88
   LOCATION L0011977      VOLUME     471395.958 3751311.259 528.31
   LOCATION L0011978      VOLUME     471396.048 3751302.669 527.73
   LOCATION L0011979      VOLUME     471396.137 3751294.080 527.16
   LOCATION L0011980      VOLUME     471396.226 3751285.490 526.59
   LOCATION L0011981      VOLUME     471396.316 3751276.901 526.02
   LOCATION L0011982      VOLUME     471396.405 3751268.311 525.47
   LOCATION L0011983      VOLUME     471396.495 3751259.722 524.93
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Bldg G Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.235E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471156.087, 3752325.549, 512.95, 3.49, 4.00
** 471266.605, 3752327.237, 512.60, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011984      VOLUME     471160.382 3752325.615 512.97
   LOCATION L0011985      VOLUME     471168.971 3752325.746 512.99
   LOCATION L0011986      VOLUME     471177.560 3752325.877 513.01
   LOCATION L0011987      VOLUME     471186.149 3752326.008 513.02
   LOCATION L0011988      VOLUME     471194.738 3752326.140 513.02
   LOCATION L0011989      VOLUME     471203.327 3752326.271 513.01
   LOCATION L0011990      VOLUME     471211.916 3752326.402 513.01
   LOCATION L0011991      VOLUME     471220.505 3752326.533 512.97
   LOCATION L0011992      VOLUME     471229.094 3752326.664 512.68
   LOCATION L0011993      VOLUME     471237.683 3752326.795 512.39
   LOCATION L0011994      VOLUME     471246.272 3752326.926 512.09
   LOCATION L0011995      VOLUME     471254.861 3752327.057 512.15
   LOCATION L0011996      VOLUME     471263.450 3752327.189 512.44
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Bldg H Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
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** Emission Rate = 9.235E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471393.152, 3752327.237, 512.28, 3.49, 4.00
** 471503.670, 3752328.924, 519.82, 3.49, 4.00
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   LOCATION L0009769      VOLUME    471397.447 3752327.302 512.14
   LOCATION L0009770      VOLUME    471406.036 3752327.433 512.21
   LOCATION L0009771      VOLUME    471414.625 3752327.565 512.49
   LOCATION L0009772      VOLUME    471423.214 3752327.696 512.76
   LOCATION L0009773      VOLUME    471431.803 3752327.827 513.33
   LOCATION L0009774      VOLUME    471440.392 3752327.958 514.73
   LOCATION L0009775      VOLUME    471448.981 3752328.089 516.13
   LOCATION L0009776      VOLUME    471457.570 3752328.220 517.52
   LOCATION L0009777      VOLUME    471466.159 3752328.351 518.29
   LOCATION L0009778      VOLUME    471474.748 3752328.482 518.89
   LOCATION L0009779      VOLUME    471483.337 3752328.614 519.49
   LOCATION L0009780      VOLUME    471491.926 3752328.745 519.94
   LOCATION L0009781      VOLUME    471500.515 3752328.876 519.95
** End of LINE VOLUME Source ID = SLINE11
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Bldg C Idle E
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0002506
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 472046.003, 3751988.091, 524.61, 3.49, 4.00
** 472044.174, 3752209.964, 521.00, 3.49, 4.00
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   LOCATION L0012293      VOLUME    472045.968 3751992.386 524.08
   LOCATION L0012294      VOLUME    472045.897 3752000.975 524.51
   LOCATION L0012295      VOLUME    472045.826 3752009.565 524.81
   LOCATION L0012296      VOLUME    472045.755 3752018.155 525.10
   LOCATION L0012297      VOLUME    472045.684 3752026.744 525.39
   LOCATION L0012298      VOLUME    472045.614 3752035.334 525.40
   LOCATION L0012299      VOLUME    472045.543 3752043.924 525.40
   LOCATION L0012300      VOLUME    472045.472 3752052.513 525.41
   LOCATION L0012301      VOLUME    472045.401 3752061.103 525.50
   LOCATION L0012302      VOLUME    472045.330 3752069.693 525.65
   LOCATION L0012303      VOLUME    472045.260 3752078.283 525.81
   LOCATION L0012304      VOLUME    472045.189 3752086.872 525.96
   LOCATION L0012305      VOLUME    472045.118 3752095.462 525.82
   LOCATION L0012306      VOLUME    472045.047 3752104.052 525.69
   LOCATION L0012307      VOLUME    472044.976 3752112.641 525.55
   LOCATION L0012308      VOLUME    472044.906 3752121.231 525.26
   LOCATION L0012309      VOLUME    472044.835 3752129.821 524.84
   LOCATION L0012310      VOLUME    472044.764 3752138.411 524.41
   LOCATION L0012311      VOLUME    472044.693 3752147.000 523.98
   LOCATION L0012312      VOLUME    472044.623 3752155.590 523.55
   LOCATION L0012313      VOLUME    472044.552 3752164.180 523.12
   LOCATION L0012314      VOLUME    472044.481 3752172.769 522.70
   LOCATION L0012315      VOLUME    472044.410 3752181.359 522.27
   LOCATION L0012316      VOLUME    472044.339 3752189.949 521.84
   LOCATION L0012317      VOLUME    472044.269 3752198.539 521.41
   LOCATION L0012318      VOLUME    472044.198 3752207.128 520.98
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Bldg J Idle
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** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.203E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471627.857, 3752328.825, 518.00, 3.49, 4.00
** 471724.774, 3752329.434, 518.03, 3.49, 4.00
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   LOCATION L0009808       VOLUME      471632.152 3752328.852 517.72
   LOCATION L0009809       VOLUME      471640.742 3752328.906 517.67
   LOCATION L0009810       VOLUME      471649.332 3752328.960 517.99
   LOCATION L0009811       VOLUME      471657.922 3752329.014 518.31
   LOCATION L0009812       VOLUME      471666.512 3752329.068 518.64
   LOCATION L0009813       VOLUME      471675.101 3752329.122 518.58
   LOCATION L0009814       VOLUME      471683.691 3752329.176 518.32
   LOCATION L0009815       VOLUME      471692.281 3752329.230 518.05
   LOCATION L0009816       VOLUME      471700.871 3752329.284 517.82
   LOCATION L0009817       VOLUME      471709.461 3752329.338 517.79
   LOCATION L0009818       VOLUME      471718.051 3752329.392 517.76
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Bldg K Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.235E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471873.503, 3752330.653, 515.74, 3.49, 4.00
** 472056.365, 3752331.872, 509.32, 3.49, 4.00
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   LOCATION L0009819       VOLUME      471877.798 3752330.682 515.70
   LOCATION L0009820       VOLUME      471886.387 3752330.739 515.86
   LOCATION L0009821       VOLUME      471894.977 3752330.796 515.86
   LOCATION L0009822       VOLUME      471903.567 3752330.854 515.86
   LOCATION L0009823       VOLUME      471912.157 3752330.911 515.77
   LOCATION L0009824       VOLUME      471920.747 3752330.968 515.48
   LOCATION L0009825       VOLUME      471929.336 3752331.025 515.19
   LOCATION L0009826       VOLUME      471937.926 3752331.083 514.91
   LOCATION L0009827       VOLUME      471946.516 3752331.140 515.05
   LOCATION L0009828       VOLUME      471955.106 3752331.197 515.29
   LOCATION L0009829       VOLUME      471963.696 3752331.254 515.53
   LOCATION L0009830       VOLUME      471972.285 3752331.312 515.43
   LOCATION L0009831       VOLUME      471980.875 3752331.369 514.61
   LOCATION L0009832       VOLUME      471989.465 3752331.426 513.80
   LOCATION L0009833       VOLUME      471998.055 3752331.484 512.98
   LOCATION L0009834       VOLUME      472006.645 3752331.541 512.56
   LOCATION L0009835       VOLUME      472015.235 3752331.598 512.23
   LOCATION L0009836       VOLUME      472023.824 3752331.655 511.89
   LOCATION L0009837       VOLUME      472032.414 3752331.713 511.36
   LOCATION L0009838       VOLUME      472041.004 3752331.770 510.45
   LOCATION L0009839       VOLUME      472049.594 3752331.827 509.54
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC MU 98k N Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.39E-06
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** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471072.464, 3752159.486, 511.77, 3.49, 4.00
** 471071.658, 3752273.135, 508.16, 3.49, 4.00
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   LOCATION L0009840      VOLUME     471072.433 3752163.781 510.49
   LOCATION L0009841      VOLUME     471072.372 3752172.371 509.68
   LOCATION L0009842      VOLUME     471072.311 3752180.961 509.12
   LOCATION L0009843      VOLUME     471072.250 3752189.550 508.80
   LOCATION L0009844      VOLUME     471072.189 3752198.140 508.49
   LOCATION L0009845      VOLUME     471072.129 3752206.730 508.17
   LOCATION L0009846      VOLUME     471072.068 3752215.320 508.43
   LOCATION L0009847      VOLUME     471072.007 3752223.910 508.69
   LOCATION L0009848      VOLUME     471071.946 3752232.499 508.95
   LOCATION L0009849      VOLUME     471071.885 3752241.089 508.95
   LOCATION L0009850      VOLUME     471071.824 3752249.679 508.71
   LOCATION L0009851      VOLUME     471071.763 3752258.269 508.46
   LOCATION L0009852      VOLUME     471071.702 3752266.858 508.21
** End of LINE VOLUME Source ID = SLINE15
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC MU 77k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.449E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471007.982, 3751965.235, 512.00, 3.49, 4.00
** 471030.551, 3752021.657, 514.79, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0009853      VOLUME     471009.577 3751969.223 512.09
   LOCATION L0009854      VOLUME     471012.767 3751977.199 512.46
   LOCATION L0009855      VOLUME     471015.958 3751985.174 512.83
   LOCATION L0009856      VOLUME     471019.148 3751993.150 513.20
   LOCATION L0009857      VOLUME     471022.338 3752001.125 513.58
   LOCATION L0009858      VOLUME     471025.528 3752009.101 513.95
   LOCATION L0009859      VOLUME     471028.719 3752017.077 514.32
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC MU 131k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.868E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471015.236, 3751733.907, 517.21, 3.49, 4.00
** 471015.236, 3751822.569, 516.68, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0009860      VOLUME     471015.236 3751738.202 516.73
   LOCATION L0009861      VOLUME     471015.236 3751746.792 516.39
   LOCATION L0009862      VOLUME     471015.236 3751755.382 516.05
   LOCATION L0009863      VOLUME     471015.236 3751763.972 515.91
   LOCATION L0009864      VOLUME     471015.236 3751772.562 515.80
   LOCATION L0009865      VOLUME     471015.236 3751781.152 515.69
   LOCATION L0009866      VOLUME     471015.236 3751789.742 515.68
   LOCATION L0009867      VOLUME     471015.236 3751798.332 515.86
   LOCATION L0009868      VOLUME     471015.236 3751806.922 516.04
   LOCATION L0009869      VOLUME     471015.236 3751815.512 516.22
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** End of LINE VOLUME Source ID = SLINE17
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC MU 98k S Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.39E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471016.042, 3751595.271, 519.80, 3.49, 4.00
** 471016.042, 3751684.740, 519.18, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0009870     VOLUME    471016.042 3751599.566 520.02
   LOCATION L0009871     VOLUME    471016.042 3751608.156 519.70
   LOCATION L0009872     VOLUME    471016.042 3751616.746 519.99
   LOCATION L0009873     VOLUME    471016.042 3751625.336 520.27
   LOCATION L0009874     VOLUME    471016.042 3751633.926 520.56
   LOCATION L0009875     VOLUME    471016.042 3751642.516 520.61
   LOCATION L0009876     VOLUME    471016.042 3751651.106 520.55
   LOCATION L0009877     VOLUME    471016.042 3751659.696 520.48
   LOCATION L0009878     VOLUME    471016.042 3751668.286 520.36
   LOCATION L0009879     VOLUME    471016.042 3751676.876 519.95
** End of LINE VOLUME Source ID = SLINE18
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC MU 110k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.927E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471161.126, 3751442.127, 525.48, 3.49, 4.00
** 471161.126, 3751322.836, 523.77, 3.49, 4.00
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   LOCATION L0009880     VOLUME    471161.126 3751437.832 525.41
   LOCATION L0009881     VOLUME    471161.126 3751429.242 525.13
   LOCATION L0009882     VOLUME    471161.126 3751420.652 524.86
   LOCATION L0009883     VOLUME    471161.126 3751412.062 524.59
   LOCATION L0009884     VOLUME    471161.126 3751403.472 524.32
   LOCATION L0009885     VOLUME    471161.126 3751394.882 524.16
   LOCATION L0009886     VOLUME    471161.126 3751386.292 524.43
   LOCATION L0009887     VOLUME    471161.126 3751377.702 524.70
   LOCATION L0009888     VOLUME    471161.126 3751369.112 524.98
   LOCATION L0009889     VOLUME    471161.126 3751360.522 524.86
   LOCATION L0009890     VOLUME    471161.126 3751351.932 524.59
   LOCATION L0009891     VOLUME    471161.126 3751343.342 524.32
   LOCATION L0009892     VOLUME    471161.126 3751334.752 524.04
   LOCATION L0009893     VOLUME    471161.126 3751326.162 523.76
** End of LINE VOLUME Source ID = SLINE19
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Cactus 40%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0000519
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
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**  471783.009, 3751890.344, 534.89, 3.49, 6.51
**  471064.829, 3751884.263, 512.97, 3.49, 6.51
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   LOCATION L0012319      VOLUME     471776.009 3751890.284 534.88
   LOCATION L0012320      VOLUME     471762.010 3751890.166 534.68
   LOCATION L0012321      VOLUME     471748.010 3751890.047 535.18
   LOCATION L0012322      VOLUME     471734.011 3751889.929 535.80
   LOCATION L0012323      VOLUME     471720.011 3751889.810 536.00
   LOCATION L0012324      VOLUME     471706.012 3751889.692 536.00
   LOCATION L0012325      VOLUME     471692.012 3751889.573 536.00
   LOCATION L0012326      VOLUME     471678.013 3751889.455 536.00
   LOCATION L0012327      VOLUME     471664.013 3751889.336 536.00
   LOCATION L0012328      VOLUME     471650.014 3751889.218 536.00
   LOCATION L0012329      VOLUME     471636.014 3751889.099 536.00
   LOCATION L0012330      VOLUME     471622.015 3751888.981 536.00
   LOCATION L0012331      VOLUME     471608.015 3751888.862 536.00
   LOCATION L0012332      VOLUME     471594.016 3751888.744 536.00
   LOCATION L0012333      VOLUME     471580.016 3751888.625 536.00
   LOCATION L0012334      VOLUME     471566.017 3751888.507 535.37
   LOCATION L0012335      VOLUME     471552.017 3751888.388 534.72
   LOCATION L0012336      VOLUME     471538.018 3751888.270 533.61
   LOCATION L0012337      VOLUME     471524.018 3751888.151 532.39
   LOCATION L0012338      VOLUME     471510.019 3751888.032 531.48
   LOCATION L0012339      VOLUME     471496.020 3751887.914 530.73
   LOCATION L0012340      VOLUME     471482.020 3751887.795 529.87
   LOCATION L0012341      VOLUME     471468.021 3751887.677 528.93
   LOCATION L0012342      VOLUME     471454.021 3751887.558 528.18
   LOCATION L0012343      VOLUME     471440.022 3751887.440 527.71
   LOCATION L0012344      VOLUME     471426.022 3751887.321 527.08
   LOCATION L0012345      VOLUME     471412.023 3751887.203 525.98
   LOCATION L0012346      VOLUME     471398.023 3751887.084 524.95
   LOCATION L0012347      VOLUME     471384.024 3751886.966 524.48
   LOCATION L0012348      VOLUME     471370.024 3751886.847 524.02
   LOCATION L0012349      VOLUME     471356.025 3751886.729 523.55
   LOCATION L0012350      VOLUME     471342.025 3751886.610 523.08
   LOCATION L0012351      VOLUME     471328.026 3751886.492 522.87
   LOCATION L0012352      VOLUME     471314.026 3751886.373 522.72
   LOCATION L0012353      VOLUME     471300.027 3751886.255 522.67
   LOCATION L0012354      VOLUME     471286.027 3751886.136 522.64
   LOCATION L0012355      VOLUME     471272.028 3751886.018 522.97
   LOCATION L0012356      VOLUME     471258.028 3751885.899 523.61
   LOCATION L0012357      VOLUME     471244.029 3751885.781 524.18
   LOCATION L0012358      VOLUME     471230.029 3751885.662 524.65
   LOCATION L0012359      VOLUME     471216.030 3751885.544 525.00
   LOCATION L0012360      VOLUME     471202.030 3751885.425 525.00
   LOCATION L0012361      VOLUME     471188.031 3751885.306 524.95
   LOCATION L0012362      VOLUME     471174.031 3751885.188 524.48
   LOCATION L0012363      VOLUME     471160.032 3751885.069 524.02
   LOCATION L0012364      VOLUME     471146.032 3751884.951 522.20
   LOCATION L0012365      VOLUME     471132.033 3751884.832 520.33
   LOCATION L0012366      VOLUME     471118.033 3751884.714 518.95
   LOCATION L0012367      VOLUME     471104.034 3751884.595 517.67
   LOCATION L0012368      VOLUME     471090.034 3751884.477 516.08
   LOCATION L0012369      VOLUME     471076.035 3751884.358 514.32
** End of LINE VOLUME Source ID = SLINE20
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Cactus 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0003059
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 21
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**  471783.009, 3751890.701, 534.84, 3.49, 6.51
**  471937.518, 3751892.847, 532.73, 3.49, 6.51
**  471967.919, 3751890.344, 530.29, 3.49, 6.51
**  472028.721, 3751881.402, 531.03, 3.49, 6.51
**  472138.165, 3751849.928, 525.23, 3.49, 6.51
**  472190.026, 3751839.556, 518.48, 3.49, 6.51
**  472251.185, 3751834.906, 516.97, 3.49, 6.51
**  472386.023, 3751843.848, 505.08, 3.49, 6.51
**  472605.268, 3751861.731, 494.77, 3.49, 6.51
**  472649.618, 3751864.950, 492.96, 3.49, 6.51
**  472678.946, 3751868.526, 491.74, 3.49, 6.51
**  472893.551, 3751939.433, 487.93, 3.49, 6.51
**  473010.361, 3751979.489, 485.25, 3.49, 6.51
**  473047.316, 3751993.703, 484.02, 3.49, 6.51
**  473088.923, 3752005.590, 483.14, 3.49, 6.51
**  473118.125, 3752011.792, 482.83, 3.49, 6.51
**  473170.069, 3752017.736, 481.18, 3.49, 6.51
**  473234.052, 3752016.140, 480.06, 3.49, 6.51
**  473315.533, 3752022.220, 478.02, 3.49, 6.51
**  473422.857, 3752035.902, 475.57, 3.49, 6.51
**  473443.227, 3752040.462, 475.45, 3.49, 6.51
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    LOCATION L0012370      VOLUME      471790.009 3751890.799 535.07
    LOCATION L0012371      VOLUME      471804.007 3751890.993 535.50
    LOCATION L0012372      VOLUME      471818.006 3751891.187 535.95
    LOCATION L0012373      VOLUME      471832.004 3751891.382 536.41
    LOCATION L0012374      VOLUME      471846.003 3751891.576 536.88
    LOCATION L0012375      VOLUME      471860.002 3751891.771 537.00
    LOCATION L0012376      VOLUME      471874.000 3751891.965 537.00
    LOCATION L0012377      VOLUME      471887.999 3751892.160 536.57
    LOCATION L0012378      VOLUME      471901.998 3751892.354 535.86
    LOCATION L0012379      VOLUME      471915.996 3751892.548 534.93
    LOCATION L0012380      VOLUME      471929.995 3751892.743 533.74
    LOCATION L0012381      VOLUME      471943.972 3751892.316 532.52
    LOCATION L0012382      VOLUME      471957.925 3751891.167 531.20
    LOCATION L0012383      VOLUME      471971.849 3751889.766 530.20
    LOCATION L0012384      VOLUME      471985.700 3751887.729 530.80
    LOCATION L0012385      VOLUME      471999.551 3751885.692 531.40
    LOCATION L0012386      VOLUME      472013.402 3751883.655 531.29
    LOCATION L0012387      VOLUME      472027.253 3751881.618 531.05
    LOCATION L0012388      VOLUME      472040.750 3751877.943 530.56
    LOCATION L0012389      VOLUME      472054.205 3751874.074 530.33
    LOCATION L0012390      VOLUME      472067.659 3751870.204 530.37
    LOCATION L0012391      VOLUME      472081.114 3751866.335 530.44
    LOCATION L0012392      VOLUME      472094.569 3751862.466 530.23
    LOCATION L0012393      VOLUME      472108.023 3751858.596 529.62
    LOCATION L0012394      VOLUME      472121.478 3751854.727 528.67
    LOCATION L0012395      VOLUME      472134.933 3751850.858 526.15
    LOCATION L0012396      VOLUME      472148.595 3751847.842 523.31
    LOCATION L0012397      VOLUME      472162.323 3751845.097 520.97
    LOCATION L0012398      VOLUME      472176.051 3751842.351 518.98
    LOCATION L0012399      VOLUME      472189.780 3751839.605 518.44
    LOCATION L0012400      VOLUME      472203.735 3751838.514 518.22
    LOCATION L0012401      VOLUME      472217.695 3751837.453 518.31
    LOCATION L0012402      VOLUME      472231.655 3751836.391 518.62
    LOCATION L0012403      VOLUME      472245.614 3751835.330 517.95
    LOCATION L0012404      VOLUME      472259.580 3751835.463 515.78
    LOCATION L0012405      VOLUME      472273.549 3751836.389 513.78
    LOCATION L0012406      VOLUME      472287.518 3751837.316 512.71
    LOCATION L0012407      VOLUME      472301.488 3751838.242 511.78
    LOCATION L0012408      VOLUME      472315.457 3751839.168 511.22
    LOCATION L0012409      VOLUME      472329.426 3751840.095 510.66
    LOCATION L0012410      VOLUME      472343.396 3751841.021 508.72
    LOCATION L0012411      VOLUME      472357.365 3751841.948 506.77
    LOCATION L0012412      VOLUME      472371.334 3751842.874 505.94
    LOCATION L0012413      VOLUME      472385.304 3751843.800 505.35
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LOCATION L0012414      VOLUME      472399.258 3751844.927 505.10
LOCATION L0012415      VOLUME      472413.212 3751846.066 505.02
LOCATION L0012416      VOLUME      472427.165 3751847.204 505.24
LOCATION L0012417      VOLUME      472441.119 3751848.342 505.70
LOCATION L0012418      VOLUME      472455.073 3751849.480 505.67
LOCATION L0012419      VOLUME      472469.026 3751850.618 504.88
LOCATION L0012420      VOLUME      472482.980 3751851.756 504.02
LOCATION L0012421      VOLUME      472496.934 3751852.894 502.80
LOCATION L0012422      VOLUME      472510.887 3751854.033 501.69
LOCATION L0012423      VOLUME      472524.841 3751855.171 501.20
LOCATION L0012424      VOLUME      472538.795 3751856.309 500.68
LOCATION L0012425      VOLUME      472552.748 3751857.447 499.69
LOCATION L0012426      VOLUME      472566.702 3751858.585 498.63
LOCATION L0012427      VOLUME      472580.656 3751859.723 496.96
LOCATION L0012428      VOLUME      472594.609 3751860.861 495.14
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LOCATION L0012437      VOLUME      472718.155 3751881.481 491.34
LOCATION L0012438      VOLUME      472731.448 3751885.873 491.16
LOCATION L0012439      VOLUME      472744.742 3751890.265 491.02
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LOCATION L0012442      VOLUME      472784.621 3751903.442 489.81
LOCATION L0012443      VOLUME      472797.914 3751907.834 490.11
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LOCATION L0012447      VOLUME      472851.087 3751925.402 488.23
LOCATION L0012448      VOLUME      472864.380 3751929.795 488.04
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LOCATION L0012450      VOLUME      472890.967 3751938.579 488.00
LOCATION L0012451      VOLUME      472904.220 3751943.091 487.85
LOCATION L0012452      VOLUME      472917.463 3751947.632 487.41
LOCATION L0012453      VOLUME      472930.706 3751952.174 487.00
LOCATION L0012454      VOLUME      472943.949 3751956.715 487.00
LOCATION L0012455      VOLUME      472957.192 3751961.256 487.00
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LOCATION L0012468      VOLUME      473131.112 3752013.279 482.28
LOCATION L0012469      VOLUME      473145.021 3752014.870 481.89
LOCATION L0012470      VOLUME      473158.930 3752016.462 481.57
LOCATION L0012471      VOLUME      473172.857 3752017.667 481.27
LOCATION L0012472      VOLUME      473186.853 3752017.317 481.13
LOCATION L0012473      VOLUME      473200.848 3752016.968 480.96
LOCATION L0012474      VOLUME      473214.844 3752016.619 480.49
LOCATION L0012475      VOLUME      473228.840 3752016.270 480.03
LOCATION L0012476      VOLUME      473242.814 3752016.793 480.00
LOCATION L0012477      VOLUME      473256.775 3752017.835 480.00
LOCATION L0012478      VOLUME      473270.736 3752018.877 479.63
LOCATION L0012479      VOLUME      473284.697 3752019.919 479.16
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    LOCATION L0012480      VOLUME      473298.658 3752020.961 478.70
    LOCATION L0012481      VOLUME      473312.619 3752022.003 478.23
    LOCATION L0012482      VOLUME      473326.522 3752023.621 477.77
    LOCATION L0012483      VOLUME      473340.410 3752025.392 477.31
    LOCATION L0012484      VOLUME      473354.298 3752027.162 476.84
    LOCATION L0012485      VOLUME      473368.185 3752028.932 476.38
    LOCATION L0012486      VOLUME      473382.073 3752030.703 476.00
    LOCATION L0012487      VOLUME      473395.960 3752032.473 476.00
    LOCATION L0012488      VOLUME      473409.848 3752034.243 475.99
    LOCATION L0012489      VOLUME      473423.721 3752036.095 475.68
    LOCATION L0012490      VOLUME      473437.383 3752039.154 475.46
** End of LINE VOLUME Source ID = SLINE21
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Bandit 25%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003054
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
** 471063.609, 3751886.059, 512.93, 3.49, 6.51
** 471065.506, 3751935.378, 516.91, 3.49, 6.51
** 471068.352, 3751974.263, 516.80, 3.49, 6.51
** 471094.908, 3752054.880, 515.07, 3.49, 6.51
** 471118.618, 3752119.373, 512.02, 3.49, 6.51
** 471126.206, 3752159.207, 513.03, 3.49, 6.51
** 471125.257, 3752255.947, 511.96, 3.49, 6.51
** 471422.115, 3752258.792, 518.41, 3.49, 6.51
** ----------------------------------------------------------------------
    LOCATION L0012491      VOLUME      471063.878 3751893.054 513.61
    LOCATION L0012492      VOLUME      471064.416 3751907.044 514.51
    LOCATION L0012493      VOLUME      471064.955 3751921.034 515.50
    LOCATION L0012494      VOLUME      471065.493 3751935.023 516.49
    LOCATION L0012495      VOLUME      471066.502 3751948.987 516.65
    LOCATION L0012496      VOLUME      471067.524 3751962.949 516.74
    LOCATION L0012497      VOLUME      471069.182 3751976.786 516.62
    LOCATION L0012498      VOLUME      471073.563 3751990.083 516.35
    LOCATION L0012499      VOLUME      471077.943 3752003.380 516.28
    LOCATION L0012500      VOLUME      471082.323 3752016.677 516.43
    LOCATION L0012501      VOLUME      471086.703 3752029.974 516.40
    LOCATION L0012502      VOLUME      471091.084 3752043.271 515.77
    LOCATION L0012503      VOLUME      471095.521 3752056.549 515.01
    LOCATION L0012504      VOLUME      471100.352 3752069.689 514.15
    LOCATION L0012505      VOLUME      471105.183 3752082.829 513.28
    LOCATION L0012506      VOLUME      471110.014 3752095.969 512.69
    LOCATION L0012507      VOLUME      471114.845 3752109.109 512.25
    LOCATION L0012508      VOLUME      471119.192 3752122.383 512.19
    LOCATION L0012509      VOLUME      471121.811 3752136.136 512.65
    LOCATION L0012510      VOLUME      471124.431 3752149.889 512.89
    LOCATION L0012511      VOLUME      471126.161 3752163.721 512.43
    LOCATION L0012512      VOLUME      471126.024 3752177.720 511.99
    LOCATION L0012513      VOLUME      471125.887 3752191.720 511.88
    LOCATION L0012514      VOLUME      471125.750 3752205.719 511.75
    LOCATION L0012515      VOLUME      471125.612 3752219.718 511.74
    LOCATION L0012516      VOLUME      471125.475 3752233.717 511.73
    LOCATION L0012517      VOLUME      471125.338 3752247.717 511.77
    LOCATION L0012518      VOLUME      471131.027 3752256.002 512.05
    LOCATION L0012519      VOLUME      471145.026 3752256.136 512.52
    LOCATION L0012520      VOLUME      471159.025 3752256.270 512.98
    LOCATION L0012521      VOLUME      471173.025 3752256.405 513.76
    LOCATION L0012522      VOLUME      471187.024 3752256.539 514.53
    LOCATION L0012523      VOLUME      471201.023 3752256.673 515.05
    LOCATION L0012524      VOLUME      471215.023 3752256.807 515.51
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      LOCATION L0012525      VOLUME      471229.022 3752256.941 515.33
      LOCATION L0012526      VOLUME      471243.022 3752257.075 514.86
      LOCATION L0012527      VOLUME      471257.021 3752257.210 514.71
      LOCATION L0012528      VOLUME      471271.020 3752257.344 514.84
      LOCATION L0012529      VOLUME      471285.020 3752257.478 515.04
      LOCATION L0012530      VOLUME      471299.019 3752257.612 515.36
      LOCATION L0012531      VOLUME      471313.018 3752257.746 515.79
      LOCATION L0012532      VOLUME      471327.018 3752257.880 516.58
      LOCATION L0012533      VOLUME      471341.017 3752258.015 517.30
      LOCATION L0012534      VOLUME      471355.016 3752258.149 517.43
      LOCATION L0012535      VOLUME      471369.016 3752258.283 517.55
      LOCATION L0012536      VOLUME      471383.015 3752258.417 518.00
      LOCATION L0012537      VOLUME      471397.014 3752258.551 518.45
      LOCATION L0012538      VOLUME      471411.014 3752258.686 518.63
** End of LINE VOLUME Source ID = SLINE22
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Bandit 30% N
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003944
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471421.774, 3752257.642, 518.48, 3.49, 6.51
** 471780.295, 3752259.839, 519.20, 3.49, 6.51
** 471783.151, 3751890.773, 534.84, 3.49, 6.51
** ----------------------------------------------------------------------
      LOCATION L0012539      VOLUME      471428.774 3752257.685 518.89
      LOCATION L0012540      VOLUME      471442.774 3752257.771 519.02
      LOCATION L0012541      VOLUME      471456.773 3752257.856 519.14
      LOCATION L0012542      VOLUME      471470.773 3752257.942 519.53
      LOCATION L0012543      VOLUME      471484.773 3752258.028 519.99
      LOCATION L0012544      VOLUME      471498.773 3752258.114 520.80
      LOCATION L0012545      VOLUME      471512.772 3752258.200 521.79
      LOCATION L0012546      VOLUME      471526.772 3752258.285 522.52
      LOCATION L0012547      VOLUME      471540.772 3752258.371 522.98
      LOCATION L0012548      VOLUME      471554.772 3752258.457 522.80
      LOCATION L0012549      VOLUME      471568.771 3752258.543 521.52
      LOCATION L0012550      VOLUME      471582.771 3752258.628 520.38
      LOCATION L0012551      VOLUME      471596.771 3752258.714 519.68
      LOCATION L0012552      VOLUME      471610.770 3752258.800 519.12
      LOCATION L0012553      VOLUME      471624.770 3752258.886 519.92
      LOCATION L0012554      VOLUME      471638.770 3752258.972 520.72
      LOCATION L0012555      VOLUME      471652.770 3752259.057 521.97
      LOCATION L0012556      VOLUME      471666.769 3752259.143 523.24
      LOCATION L0012557      VOLUME      471680.769 3752259.229 523.21
      LOCATION L0012558      VOLUME      471694.769 3752259.315 522.85
      LOCATION L0012559      VOLUME      471708.769 3752259.401 522.58
      LOCATION L0012560      VOLUME      471722.768 3752259.486 522.35
      LOCATION L0012561      VOLUME      471736.768 3752259.572 521.94
      LOCATION L0012562      VOLUME      471750.768 3752259.658 521.36
      LOCATION L0012563      VOLUME      471764.768 3752259.744 520.65
      LOCATION L0012564      VOLUME      471778.767 3752259.829 519.72
      LOCATION L0012565      VOLUME      471780.392 3752247.367 519.61
      LOCATION L0012566      VOLUME      471780.500 3752233.368 519.53
      LOCATION L0012567      VOLUME      471780.609 3752219.368 519.19
      LOCATION L0012568      VOLUME      471780.717 3752205.369 518.87
      LOCATION L0012569      VOLUME      471780.825 3752191.369 518.73
      LOCATION L0012570      VOLUME      471780.934 3752177.369 518.58
      LOCATION L0012571      VOLUME      471781.042 3752163.370 518.69
      LOCATION L0012572      VOLUME      471781.150 3752149.370 518.82
      LOCATION L0012573      VOLUME      471781.259 3752135.371 519.48
      LOCATION L0012574      VOLUME      471781.367 3752121.371 520.27
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   LOCATION L0012575      VOLUME      471781.475 3752107.371 521.61
   LOCATION L0012576      VOLUME      471781.584 3752093.372 523.22
   LOCATION L0012577      VOLUME      471781.692 3752079.372 524.06
   LOCATION L0012578      VOLUME      471781.800 3752065.373 524.18
   LOCATION L0012579      VOLUME      471781.909 3752051.373 524.43
   LOCATION L0012580      VOLUME      471782.017 3752037.374 524.89
   LOCATION L0012581      VOLUME      471782.125 3752023.374 525.57
   LOCATION L0012582      VOLUME      471782.234 3752009.374 526.97
   LOCATION L0012583      VOLUME      471782.342 3751995.375 528.28
   LOCATION L0012584      VOLUME      471782.450 3751981.375 528.75
   LOCATION L0012585      VOLUME      471782.559 3751967.376 529.21
   LOCATION L0012586      VOLUME      471782.667 3751953.376 529.67
   LOCATION L0012587      VOLUME      471782.775 3751939.377 530.14
   LOCATION L0012588      VOLUME      471782.884 3751925.377 531.56
   LOCATION L0012589      VOLUME      471782.992 3751911.377 533.22
   LOCATION L0012590      VOLUME      471783.100 3751897.378 534.47
** End of LINE VOLUME Source ID = SLINE23
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Bandit 15%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002017
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471063.923, 3751884.464, 512.94, 3.49, 6.51
** 471067.349, 3751513.030, 522.92, 3.49, 6.51
** 471440.154, 3751515.771, 534.93, 3.49, 6.51
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   LOCATION L0012591      VOLUME      471063.987 3751877.464 512.68
   LOCATION L0012592      VOLUME      471064.116 3751863.465 512.36
   LOCATION L0012593      VOLUME      471064.246 3751849.466 512.06
   LOCATION L0012594      VOLUME      471064.375 3751835.466 512.06
   LOCATION L0012595      VOLUME      471064.504 3751821.467 512.14
   LOCATION L0012596      VOLUME      471064.633 3751807.467 512.47
   LOCATION L0012597      VOLUME      471064.762 3751793.468 512.93
   LOCATION L0012598      VOLUME      471064.891 3751779.469 513.84
   LOCATION L0012599      VOLUME      471065.021 3751765.469 515.16
   LOCATION L0012600      VOLUME      471065.150 3751751.470 516.49
   LOCATION L0012601      VOLUME      471065.279 3751737.470 517.83
   LOCATION L0012602      VOLUME      471065.408 3751723.471 519.06
   LOCATION L0012603      VOLUME      471065.537 3751709.472 519.94
   LOCATION L0012604      VOLUME      471065.666 3751695.472 520.86
   LOCATION L0012605      VOLUME      471065.795 3751681.473 522.27
   LOCATION L0012606      VOLUME      471065.925 3751667.473 523.68
   LOCATION L0012607      VOLUME      471066.054 3751653.474 524.21
   LOCATION L0012608      VOLUME      471066.183 3751639.475 524.68
   LOCATION L0012609      VOLUME      471066.312 3751625.475 524.41
   LOCATION L0012610      VOLUME      471066.441 3751611.476 523.95
   LOCATION L0012611      VOLUME      471066.570 3751597.476 523.80
   LOCATION L0012612      VOLUME      471066.699 3751583.477 523.81
   LOCATION L0012613      VOLUME      471066.829 3751569.478 523.84
   LOCATION L0012614      VOLUME      471066.958 3751555.478 523.89
   LOCATION L0012615      VOLUME      471067.087 3751541.479 523.73
   LOCATION L0012616      VOLUME      471067.216 3751527.479 523.23
   LOCATION L0012617      VOLUME      471067.345 3751513.480 522.64
   LOCATION L0012618      VOLUME      471080.899 3751513.130 522.85
   LOCATION L0012619      VOLUME      471094.899 3751513.233 522.96
   LOCATION L0012620      VOLUME      471108.898 3751513.336 523.31
   LOCATION L0012621      VOLUME      471122.898 3751513.439 523.78
   LOCATION L0012622      VOLUME      471136.898 3751513.542 524.25
   LOCATION L0012623      VOLUME      471150.897 3751513.645 524.71
   LOCATION L0012624      VOLUME      471164.897 3751513.748 525.34
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   LOCATION L0012625      VOLUME      471178.897 3751513.850 526.23
   LOCATION L0012626      VOLUME      471192.896 3751513.953 527.03
   LOCATION L0012627      VOLUME      471206.896 3751514.056 527.54
   LOCATION L0012628      VOLUME      471220.895 3751514.159 528.05
   LOCATION L0012629      VOLUME      471234.895 3751514.262 528.51
   LOCATION L0012630      VOLUME      471248.895 3751514.365 528.98
   LOCATION L0012631      VOLUME      471262.894 3751514.468 529.45
   LOCATION L0012632      VOLUME      471276.894 3751514.571 529.91
   LOCATION L0012633      VOLUME      471290.894 3751514.674 530.02
   LOCATION L0012634      VOLUME      471304.893 3751514.777 530.05
   LOCATION L0012635      VOLUME      471318.893 3751514.880 530.39
   LOCATION L0012636      VOLUME      471332.892 3751514.983 530.88
   LOCATION L0012637      VOLUME      471346.892 3751515.086 532.06
   LOCATION L0012638      VOLUME      471360.892 3751515.189 533.87
   LOCATION L0012639      VOLUME      471374.891 3751515.292 535.19
   LOCATION L0012640      VOLUME      471388.891 3751515.395 535.67
   LOCATION L0012641      VOLUME      471402.890 3751515.497 535.93
   LOCATION L0012642      VOLUME      471416.890 3751515.600 535.46
   LOCATION L0012643      VOLUME      471430.890 3751515.703 534.99
** End of LINE VOLUME Source ID = SLINE24
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Bandit 30% S
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003894
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471437.937, 3751517.317, 534.98, 3.49, 6.51
** 471786.513, 3751519.793, 535.03, 3.49, 6.51
** 471783.047, 3751889.660, 536.07, 3.49, 6.51
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   LOCATION L0012644      VOLUME      471444.937 3751517.367 534.46
   LOCATION L0012645      VOLUME      471458.936 3751517.466 533.99
   LOCATION L0012646      VOLUME      471472.936 3751517.566 533.52
   LOCATION L0012647      VOLUME      471486.936 3751517.665 533.05
   LOCATION L0012648      VOLUME      471500.935 3751517.765 532.23
   LOCATION L0012649      VOLUME      471514.935 3751517.864 531.34
   LOCATION L0012650      VOLUME      471528.935 3751517.964 530.72
   LOCATION L0012651      VOLUME      471542.934 3751518.063 530.23
   LOCATION L0012652      VOLUME      471556.934 3751518.162 530.00
   LOCATION L0012653      VOLUME      471570.934 3751518.262 530.00
   LOCATION L0012654      VOLUME      471584.933 3751518.361 530.00
   LOCATION L0012655      VOLUME      471598.933 3751518.461 530.00
   LOCATION L0012656      VOLUME      471612.932 3751518.560 529.99
   LOCATION L0012657      VOLUME      471626.932 3751518.660 529.96
   LOCATION L0012658      VOLUME      471640.932 3751518.759 529.89
   LOCATION L0012659      VOLUME      471654.931 3751518.858 529.45
   LOCATION L0012660      VOLUME      471668.931 3751518.958 529.02
   LOCATION L0012661      VOLUME      471682.931 3751519.057 529.48
   LOCATION L0012662      VOLUME      471696.930 3751519.157 529.99
   LOCATION L0012663      VOLUME      471710.930 3751519.256 530.81
   LOCATION L0012664      VOLUME      471724.930 3751519.356 531.71
   LOCATION L0012665      VOLUME      471738.929 3751519.455 532.62
   LOCATION L0012666      VOLUME      471752.929 3751519.554 533.56
   LOCATION L0012667      VOLUME      471766.929 3751519.654 534.25
   LOCATION L0012668      VOLUME      471780.928 3751519.753 534.71
   LOCATION L0012669      VOLUME      471786.434 3751528.208 534.90
   LOCATION L0012670      VOLUME      471786.303 3751542.207 534.89
   LOCATION L0012671      VOLUME      471786.171 3751556.207 535.49
   LOCATION L0012672      VOLUME      471786.040 3751570.206 536.36
   LOCATION L0012673      VOLUME      471785.909 3751584.206 536.76
   LOCATION L0012674      VOLUME      471785.778 3751598.205 536.75
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     LOCATION L0012675      VOLUME     471785.647 3751612.204 536.58
     LOCATION L0012676      VOLUME     471785.515 3751626.204 536.17
     LOCATION L0012677      VOLUME     471785.384 3751640.203 535.98
     LOCATION L0012678      VOLUME     471785.253 3751654.202 536.44
     LOCATION L0012679      VOLUME     471785.122 3751668.202 536.85
     LOCATION L0012680      VOLUME     471784.991 3751682.201 536.85
     LOCATION L0012681      VOLUME     471784.860 3751696.201 536.84
     LOCATION L0012682      VOLUME     471784.728 3751710.200 536.84
     LOCATION L0012683      VOLUME     471784.597 3751724.199 536.83
     LOCATION L0012684      VOLUME     471784.466 3751738.199 536.83
     LOCATION L0012685      VOLUME     471784.335 3751752.198 536.83
     LOCATION L0012686      VOLUME     471784.204 3751766.198 537.14
     LOCATION L0012687      VOLUME     471784.072 3751780.197 537.60
     LOCATION L0012688      VOLUME     471783.941 3751794.196 537.61
     LOCATION L0012689      VOLUME     471783.810 3751808.196 537.23
     LOCATION L0012690      VOLUME     471783.679 3751822.195 537.00
     LOCATION L0012691      VOLUME     471783.548 3751836.194 537.00
     LOCATION L0012692      VOLUME     471783.417 3751850.194 536.88
     LOCATION L0012693      VOLUME     471783.285 3751864.193 536.41
     LOCATION L0012694      VOLUME     471783.154 3751878.193 535.89
** End of LINE VOLUME Source ID = SLINE25
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Sycamore 5%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002617
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 26
** 473443.376, 3752040.242, 475.43, 3.49, 6.51
** 473435.363, 3752092.459, 475.89, 3.49, 6.51
** 473416.493, 3752154.757, 474.92, 3.49, 6.51
** 473397.105, 3752189.654, 475.57, 3.49, 6.51
** 473381.337, 3752217.055, 475.90, 3.49, 6.51
** 473282.332, 3752345.787, 474.94, 3.49, 6.51
** 473198.579, 3752453.581, 475.01, 3.49, 6.51
** 473110.172, 3752568.612, 472.99, 3.49, 6.51
** 473090.526, 3752597.823, 472.00, 3.49, 6.51
** 473049.425, 3752668.651, 471.89, 3.49, 6.51
** 473026.936, 3752734.827, 471.31, 3.49, 6.51
** 473012.460, 3752796.349, 470.20, 3.49, 6.51
** 473009.875, 3752870.797, 469.09, 3.49, 6.51
** 473006.948, 3753091.235, 470.00, 3.49, 6.51
** 472997.352, 3753306.457, 459.39, 3.49, 6.51
** 472980.902, 3753379.797, 457.00, 3.49, 6.51
** 472928.810, 3753461.362, 461.74, 3.49, 6.51
** 472866.437, 3753519.623, 463.02, 3.49, 6.51
** 472743.061, 3753608.042, 464.13, 3.49, 6.51
** 472686.857, 3753660.819, 459.91, 3.49, 6.51
** 472651.215, 3753719.080, 462.62, 3.49, 6.51
** 472628.596, 3753778.026, 464.00, 3.49, 6.51
** 472621.056, 3753832.175, 463.67, 3.49, 6.51
** 472617.629, 3753969.944, 463.33, 3.49, 6.51
** 472599.123, 3754362.690, 463.99, 3.49, 6.51
** 472586.785, 3754662.219, 466.00, 3.49, 6.51
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     LOCATION L0012695      VOLUME     473442.315 3752047.161 475.62
     LOCATION L0012696      VOLUME     473440.191 3752060.999 475.98
     LOCATION L0012697      VOLUME     473438.067 3752074.837 475.97
     LOCATION L0012698      VOLUME     473435.944 3752088.675 475.82
     LOCATION L0012699      VOLUME     473432.414 3752102.194 475.36
     LOCATION L0012700      VOLUME     473428.356 3752115.593 475.02
     LOCATION L0012701      VOLUME     473424.297 3752128.992 474.80
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LOCATION L0012702      VOLUME      473420.238 3752142.390 474.70
LOCATION L0012703      VOLUME      473415.969 3752155.700 474.79
LOCATION L0012704      VOLUME      473409.170 3752167.938 475.02
LOCATION L0012705      VOLUME      473402.371 3752180.176 475.24
LOCATION L0012706      VOLUME      473395.530 3752192.391 475.47
LOCATION L0012707      VOLUME      473388.547 3752204.525 475.70
LOCATION L0012708      VOLUME      473381.564 3752216.659 475.60
LOCATION L0012709      VOLUME      473373.080 3752227.791 475.45
LOCATION L0012710      VOLUME      473364.545 3752238.888 475.54
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LOCATION L0012881     VOLUME     472598.559 3754376.381 463.99
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** End of LINE VOLUME Source ID = SLINE26
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Meridian 10%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00006637
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 26
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LOCATION L0012996      VOLUME      473856.456 3750832.215 478.11
LOCATION L0012997      VOLUME      473863.493 3750820.112 477.87
LOCATION L0012998      VOLUME      473870.530 3750808.009 477.64
LOCATION L0012999      VOLUME      473877.567 3750795.906 477.39
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LOCATION L0013001      VOLUME      473891.641 3750771.700 476.93
LOCATION L0013002      VOLUME      473898.678 3750759.597 476.70
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LOCATION L0013006      VOLUME      473926.676 3750711.099 475.80
LOCATION L0013007      VOLUME      473933.632 3750698.950 475.40
LOCATION L0013008      VOLUME      473940.589 3750686.800 475.10
LOCATION L0013009      VOLUME      473947.545 3750674.651 475.07
LOCATION L0013010      VOLUME      473954.501 3750662.501 475.39
LOCATION L0013011      VOLUME      473961.457 3750650.352 475.53
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LOCATION L0013050      VOLUME      474099.865 3750132.722 476.00
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LOCATION  L0013071      VOLUME      474108.315 3749838.866 477.98
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LOCATION  L0013108      VOLUME      474551.443 3749762.198 470.94
LOCATION  L0013109      VOLUME      474565.443 3749762.237 470.47
LOCATION  L0013110      VOLUME      474579.443 3749762.276 470.01
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LOCATION  L0013114      VOLUME      474635.443 3749762.432 469.59
LOCATION  L0013115      VOLUME      474649.443 3749762.471 469.36
LOCATION  L0013116      VOLUME      474663.443 3749762.510 469.11
LOCATION  L0013117      VOLUME      474677.443 3749762.549 469.00
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   LOCATION L0013143      VOLUME     475039.741 3749730.466 467.00
   LOCATION L0013144      VOLUME     475053.560 3749728.219 467.00
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   LOCATION L0013153      VOLUME     475162.426 3749672.357 466.58
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   LOCATION L0013162      VOLUME     475219.328 3749566.364 466.00
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** End of LINE VOLUME Source ID = SLINE27
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Cactus 85%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0001293
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
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   LOCATION L0013167      VOLUME     473492.069 3752045.662 475.00
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   LOCATION L0013169      VOLUME     473519.939 3752048.355 474.51
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    LOCATION L0013172     VOLUME     473561.783 3752051.963 473.93
    LOCATION L0013173     VOLUME     473575.735 3752053.118 473.46
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    LOCATION L0013187     VOLUME     473771.437 3752060.853 472.86
    LOCATION L0013188     VOLUME     473785.333 3752062.556 472.80
    LOCATION L0013189     VOLUME     473799.229 3752064.259 472.74
    LOCATION L0013190     VOLUME     473813.125 3752065.961 472.69
    LOCATION L0013191     VOLUME     473827.021 3752067.664 472.63
    LOCATION L0013192     VOLUME     473840.917 3752069.367 472.73
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    LOCATION L0013199     VOLUME     473936.160 3752091.736 471.37
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** End of LINE VOLUME Source ID = SLINE28
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Cactus 3%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 8.619E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
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    LOCATION L0013279      VOLUME     475045.325 3752223.191 472.00
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       LOCATION L0013293      VOLUME      475241.324 3752223.958 472.00
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       LOCATION L0013301      VOLUME      475353.323 3752224.397 472.00
       LOCATION L0013302      VOLUME      475367.323 3752224.452 472.00
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** End of LINE VOLUME Source ID = SLINE29
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Bldg A Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.000248
** Vertical Dimension = 6.99
** SZINIT = 3.25
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    LOCATION L0013350      VOLUME      471280.013 3752203.690 518.12
    LOCATION L0013351      VOLUME      471288.603 3752203.679 518.43
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    LOCATION L0013354      VOLUME      471314.373 3752203.647 519.38
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    LOCATION L0013381      VOLUME      471546.302 3752203.356 526.24
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    LOCATION L0013386      VOLUME      471589.252 3752203.302 524.55
    LOCATION L0013387      VOLUME      471597.842 3752203.291 524.83
    LOCATION L0013388      VOLUME      471606.432 3752203.281 525.12
    LOCATION L0013389      VOLUME      471615.022 3752203.270 525.39
    LOCATION L0013390      VOLUME      471623.612 3752203.259 525.64
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    LOCATION L0013392      VOLUME      471640.792 3752203.238 526.11
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LOCATION L0013410      VOLUME      471732.904 3752141.103 524.74
LOCATION L0013411      VOLUME      471732.837 3752132.513 525.03
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LOCATION L0013421      VOLUME      471732.162 3752046.616 528.07
LOCATION L0013422      VOLUME      471732.095 3752038.026 528.37
LOCATION L0013423      VOLUME      471732.027 3752029.436 528.66
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    LOCATION L0013482      VOLUME      471301.197 3751948.595 522.06
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    LOCATION L0013486      VOLUME      471266.855 3751947.934 522.83
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    LOCATION L0013488      VOLUME      471249.742 3751946.412 523.67
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    LOCATION L0013490      VOLUME      471232.601 3751946.002 523.34
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** End of LINE VOLUME Source ID = SLINE30
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Bldg B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0003309
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
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** 471750.424, 3751576.204, 534.72, 3.49, 4.00
** 471187.050, 3751574.239, 526.99, 3.49, 4.00
** 471157.571, 3751570.964, 525.98, 3.49, 4.00
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LOCATION  L0013572      VOLUME      471678.208 3751841.899 536.00
LOCATION  L0013573      VOLUME      471686.798 3751841.852 536.00
LOCATION  L0013574      VOLUME      471695.388 3751841.805 536.00
LOCATION  L0013575      VOLUME      471703.978 3751841.758 536.00
LOCATION  L0013576      VOLUME      471712.568 3751841.711 536.00
LOCATION  L0013577      VOLUME      471721.158 3751841.664 536.00
LOCATION  L0013578      VOLUME      471729.748 3751841.617 536.01
LOCATION  L0013579      VOLUME      471738.337 3751841.570 536.29
LOCATION  L0013580      VOLUME      471746.927 3751841.523 536.58
LOCATION  L0013581      VOLUME      471748.511 3751834.455 536.63
LOCATION  L0013582      VOLUME      471748.574 3751825.866 536.63
LOCATION  L0013583      VOLUME      471748.638 3751817.276 536.64
LOCATION  L0013584      VOLUME      471748.701 3751808.686 536.64
LOCATION  L0013585      VOLUME      471748.765 3751800.096 536.64
LOCATION  L0013586      VOLUME      471748.829 3751791.507 536.64
LOCATION  L0013587      VOLUME      471748.892 3751782.917 536.56
LOCATION  L0013588      VOLUME      471748.956 3751774.327 536.38
LOCATION  L0013589      VOLUME      471749.020 3751765.737 536.20
LOCATION  L0013590      VOLUME      471749.083 3751757.147 536.01
LOCATION  L0013591      VOLUME      471749.147 3751748.558 535.91
LOCATION  L0013592      VOLUME      471749.210 3751739.968 535.81
LOCATION  L0013593      VOLUME      471749.274 3751731.378 535.71
LOCATION  L0013594      VOLUME      471749.338 3751722.788 535.66
LOCATION  L0013595      VOLUME      471749.401 3751714.199 535.66
LOCATION  L0013596      VOLUME      471749.465 3751705.609 535.66
LOCATION  L0013597      VOLUME      471749.529 3751697.019 535.67
LOCATION  L0013598      VOLUME      471749.592 3751688.429 535.67
LOCATION  L0013599      VOLUME      471749.656 3751679.840 535.67
LOCATION  L0013600      VOLUME      471749.720 3751671.250 535.67
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LOCATION  L0013606      VOLUME      471750.101 3751619.711 534.68
LOCATION  L0013607      VOLUME      471750.165 3751611.121 534.69
LOCATION  L0013608      VOLUME      471750.229 3751602.532 534.65
LOCATION  L0013609      VOLUME      471750.292 3751593.942 534.56
LOCATION  L0013610      VOLUME      471750.356 3751585.352 534.48
LOCATION  L0013611      VOLUME      471750.419 3751576.762 534.39
LOCATION  L0013612      VOLUME      471742.392 3751576.176 533.84
LOCATION  L0013613      VOLUME      471733.802 3751576.146 533.27
LOCATION  L0013614      VOLUME      471725.212 3751576.116 532.69
LOCATION  L0013615      VOLUME      471716.622 3751576.086 532.13
LOCATION  L0013616      VOLUME      471708.032 3751576.056 531.56
LOCATION  L0013617      VOLUME      471699.442 3751576.026 530.99
LOCATION  L0013618      VOLUME      471690.852 3751575.996 530.42
LOCATION  L0013619      VOLUME      471682.262 3751575.966 529.85
LOCATION  L0013620      VOLUME      471673.672 3751575.937 529.27
LOCATION  L0013621      VOLUME      471665.082 3751575.907 529.00
LOCATION  L0013622      VOLUME      471656.492 3751575.877 529.00
LOCATION  L0013623      VOLUME      471647.902 3751575.847 529.00
LOCATION  L0013624      VOLUME      471639.312 3751575.817 529.00
LOCATION  L0013625      VOLUME      471630.722 3751575.787 529.01
LOCATION  L0013626      VOLUME      471622.132 3751575.757 529.02
LOCATION  L0013627      VOLUME      471613.543 3751575.727 529.03
LOCATION  L0013628      VOLUME      471604.953 3751575.697 529.18
LOCATION  L0013629      VOLUME      471596.363 3751575.667 529.46
LOCATION  L0013630      VOLUME      471587.773 3751575.637 529.74
LOCATION  L0013631      VOLUME      471579.183 3751575.607 530.00
LOCATION  L0013632      VOLUME      471570.593 3751575.577 530.00
LOCATION  L0013633      VOLUME      471562.003 3751575.547 530.00
LOCATION  L0013634      VOLUME      471553.413 3751575.517 530.00
LOCATION  L0013635      VOLUME      471544.823 3751575.487 530.16
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LOCATION  L0013637      VOLUME      471527.643 3751575.427 530.76
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   LOCATION L0013639      VOLUME    471510.463 3751575.367 531.04
   LOCATION L0013640      VOLUME    471501.873 3751575.337 531.04
   LOCATION L0013641      VOLUME    471493.283 3751575.307 531.04
   LOCATION L0013642      VOLUME    471484.693 3751575.277 531.36
   LOCATION L0013643      VOLUME    471476.103 3751575.247 531.92
   LOCATION L0013644      VOLUME    471467.513 3751575.217 532.48
   LOCATION L0013645      VOLUME    471458.923 3751575.187 533.02
   LOCATION L0013646      VOLUME    471450.334 3751575.157 533.31
   LOCATION L0013647      VOLUME    471441.744 3751575.127 533.59
   LOCATION L0013648      VOLUME    471433.154 3751575.097 533.88
   LOCATION L0013649      VOLUME    471424.564 3751575.068 534.32
   LOCATION L0013650      VOLUME    471415.974 3751575.038 534.88
   LOCATION L0013651      VOLUME    471407.384 3751575.008 535.44
   LOCATION L0013652      VOLUME    471398.794 3751574.978 535.97
   LOCATION L0013653      VOLUME    471390.204 3751574.948 536.24
   LOCATION L0013654      VOLUME    471381.614 3751574.918 536.51
   LOCATION L0013655      VOLUME    471373.024 3751574.888 536.77
   LOCATION L0013656      VOLUME    471364.434 3751574.858 536.70
   LOCATION L0013657      VOLUME    471355.844 3751574.828 536.39
   LOCATION L0013658      VOLUME    471347.254 3751574.798 536.09
   LOCATION L0013659      VOLUME    471338.664 3751574.768 535.67
   LOCATION L0013660      VOLUME    471330.074 3751574.738 534.33
   LOCATION L0013661      VOLUME    471321.484 3751574.708 532.99
   LOCATION L0013662      VOLUME    471312.894 3751574.678 531.65
   LOCATION L0013663      VOLUME    471304.304 3751574.648 530.95
   LOCATION L0013664      VOLUME    471295.714 3751574.618 530.64
   LOCATION L0013665      VOLUME    471287.125 3751574.588 530.34
   LOCATION L0013666      VOLUME    471278.535 3751574.558 530.04
   LOCATION L0013667      VOLUME    471269.945 3751574.528 529.75
   LOCATION L0013668      VOLUME    471261.355 3751574.498 529.47
   LOCATION L0013669      VOLUME    471252.765 3751574.468 529.18
   LOCATION L0013670      VOLUME    471244.175 3751574.438 528.73
   LOCATION L0013671      VOLUME    471235.585 3751574.408 528.18
   LOCATION L0013672      VOLUME    471226.995 3751574.378 527.63
   LOCATION L0013673      VOLUME    471218.405 3751574.348 527.15
   LOCATION L0013674      VOLUME    471209.815 3751574.318 527.11
   LOCATION L0013675      VOLUME    471201.225 3751574.288 527.06
   LOCATION L0013676      VOLUME    471192.635 3751574.258 527.02
   LOCATION L0013677      VOLUME    471184.064 3751573.907 526.80
   LOCATION L0013678      VOLUME    471175.526 3751572.959 526.48
   LOCATION L0013679      VOLUME    471166.989 3751572.010 526.13
   LOCATION L0013680      VOLUME    471158.451 3751571.061 525.81
   LOCATION L0013681      VOLUME    471154.342 3751563.969 525.50
   LOCATION L0013682      VOLUME    471153.640 3751555.533 525.16
   LOCATION L0013683      VOLUME    471153.640 3751546.943 524.81
   LOCATION L0013684      VOLUME    471153.640 3751538.353 524.80
** End of LINE VOLUME Source ID = SLINE31
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Bldg C Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00008154
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
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** 472068.795, 3751928.641, 524.74, 3.49, 4.00
** 472062.900, 3752218.189, 520.93, 3.49, 4.00
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LOCATION L0013687      VOLUME      472064.742 3751915.721 525.71
LOCATION L0013688      VOLUME      472067.314 3751923.918 525.24
LOCATION L0013689      VOLUME      472068.721 3751932.280 524.67
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LOCATION L0013691      VOLUME      472068.372 3751949.456 522.83
LOCATION L0013692      VOLUME      472068.197 3751958.045 521.78
LOCATION L0013693      VOLUME      472068.022 3751966.633 520.72
LOCATION L0013694      VOLUME      472067.847 3751975.221 520.98
LOCATION L0013695      VOLUME      472067.672 3751983.809 521.26
LOCATION L0013696      VOLUME      472067.497 3751992.397 521.55
LOCATION L0013697      VOLUME      472067.322 3752000.986 521.89
LOCATION L0013698      VOLUME      472067.147 3752009.574 522.28
LOCATION L0013699      VOLUME      472066.973 3752018.162 522.66
LOCATION L0013700      VOLUME      472066.798 3752026.750 523.04
LOCATION L0013701      VOLUME      472066.623 3752035.338 522.92
LOCATION L0013702      VOLUME      472066.448 3752043.927 522.82
LOCATION L0013703      VOLUME      472066.273 3752052.515 522.72
LOCATION L0013704      VOLUME      472066.098 3752061.103 522.85
LOCATION L0013705      VOLUME      472065.923 3752069.691 523.17
LOCATION L0013706      VOLUME      472065.748 3752078.280 523.49
LOCATION L0013707      VOLUME      472065.574 3752086.868 523.80
LOCATION L0013708      VOLUME      472065.399 3752095.456 523.89
LOCATION L0013709      VOLUME      472065.224 3752104.044 523.98
LOCATION L0013710      VOLUME      472065.049 3752112.632 524.06
LOCATION L0013711      VOLUME      472064.874 3752121.221 523.96
LOCATION L0013712      VOLUME      472064.699 3752129.809 523.71
LOCATION L0013713      VOLUME      472064.524 3752138.397 523.45
LOCATION L0013714      VOLUME      472064.349 3752146.985 523.19
LOCATION L0013715      VOLUME      472064.175 3752155.574 522.73
LOCATION L0013716      VOLUME      472064.000 3752164.162 522.27
LOCATION L0013717      VOLUME      472063.825 3752172.750 521.80
LOCATION L0013718      VOLUME      472063.650 3752181.338 521.48
LOCATION L0013719      VOLUME      472063.475 3752189.926 521.28
LOCATION L0013720      VOLUME      472063.300 3752198.515 521.08
LOCATION L0013721      VOLUME      472063.125 3752207.103 520.87
LOCATION L0013722      VOLUME      472062.950 3752215.691 520.59
LOCATION L0013723      VOLUME      472056.808 3752218.222 520.61
LOCATION L0013724      VOLUME      472048.218 3752218.269 520.61
LOCATION L0013725      VOLUME      472039.628 3752218.316 520.61
LOCATION L0013726      VOLUME      472031.038 3752218.363 520.61
LOCATION L0013727      VOLUME      472022.448 3752218.410 519.99
LOCATION L0013728      VOLUME      472013.858 3752218.457 519.24
LOCATION L0013729      VOLUME      472005.268 3752218.504 518.49
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LOCATION L0013739      VOLUME      471919.370 3752218.973 519.26
LOCATION L0013740      VOLUME      471910.780 3752219.020 519.55
LOCATION L0013741      VOLUME      471902.190 3752219.067 519.59
LOCATION L0013742      VOLUME      471893.600 3752219.114 519.58
LOCATION L0013743      VOLUME      471885.010 3752219.161 519.58
LOCATION L0013744      VOLUME      471876.420 3752219.208 519.52
LOCATION L0013745      VOLUME      471867.831 3752219.255 519.35
LOCATION L0013746      VOLUME      471859.241 3752219.302 519.19
LOCATION L0013747      VOLUME      471850.651 3752219.348 519.02
LOCATION L0013748      VOLUME      471842.061 3752219.395 518.64
LOCATION L0013749      VOLUME      471833.471 3752219.442 518.23
LOCATION L0013750      VOLUME      471824.881 3752219.489 517.82
LOCATION L0013751      VOLUME      471823.225 3752212.652 517.95
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   LOCATION L0013754      VOLUME      471823.553 3752186.885 519.45
   LOCATION L0013755      VOLUME      471823.662 3752178.295 520.03
   LOCATION L0013756      VOLUME      471823.771 3752169.706 520.63
   LOCATION L0013757      VOLUME      471823.880 3752161.117 521.25
   LOCATION L0013758      VOLUME      471823.989 3752152.527 521.87
   LOCATION L0013759      VOLUME      471824.099 3752143.938 522.56
   LOCATION L0013760      VOLUME      471824.208 3752135.349 523.38
   LOCATION L0013761      VOLUME      471824.317 3752126.759 524.20
   LOCATION L0013762      VOLUME      471824.426 3752118.170 525.02
   LOCATION L0013763      VOLUME      471824.535 3752109.581 525.44
   LOCATION L0013764      VOLUME      471824.645 3752100.991 525.78
   LOCATION L0013765      VOLUME      471824.754 3752092.402 526.12
   LOCATION L0013766      VOLUME      471824.863 3752083.813 526.46
   LOCATION L0013767      VOLUME      471824.972 3752075.224 526.81
   LOCATION L0013768      VOLUME      471825.081 3752066.634 527.16
   LOCATION L0013769      VOLUME      471825.190 3752058.045 527.51
   LOCATION L0013770      VOLUME      471825.300 3752049.456 527.86
   LOCATION L0013771      VOLUME      471825.409 3752040.866 528.21
   LOCATION L0013772      VOLUME      471825.518 3752032.277 528.57
   LOCATION L0013773      VOLUME      471825.627 3752023.688 529.02
   LOCATION L0013774      VOLUME      471825.736 3752015.098 529.67
   LOCATION L0013775      VOLUME      471825.846 3752006.509 530.32
   LOCATION L0013776      VOLUME      471825.955 3751997.920 530.97
   LOCATION L0013777      VOLUME      471826.064 3751989.330 531.52
   LOCATION L0013778      VOLUME      471826.173 3751980.741 532.04
   LOCATION L0013779      VOLUME      471826.282 3751972.152 532.57
   LOCATION L0013780      VOLUME      471826.392 3751963.563 533.11
   LOCATION L0013781      VOLUME      471826.501 3751954.973 533.70
   LOCATION L0013782      VOLUME      471826.610 3751946.384 534.29
   LOCATION L0013783      VOLUME      471826.719 3751937.795 534.88
   LOCATION L0013784      VOLUME      471826.828 3751929.205 535.28
   LOCATION L0013785      VOLUME      471826.937 3751920.616 535.66
   LOCATION L0013786      VOLUME      471827.047 3751912.027 536.02
** End of LINE VOLUME Source ID = SLINE32
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Bldg D Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.989E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
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** 471824.448, 3751646.298, 538.29, 3.49, 4.00
** 471826.414, 3751872.303, 536.15, 3.49, 4.00
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   LOCATION L0011364      VOLUME      471821.677 3751646.224 538.49
   LOCATION L0011365      VOLUME      471824.499 3751652.116 538.84
   LOCATION L0011366      VOLUME      471824.574 3751660.706 539.04
   LOCATION L0011367      VOLUME      471824.648 3751669.296 539.08
   LOCATION L0011368      VOLUME      471824.723 3751677.885 538.80
   LOCATION L0011369      VOLUME      471824.798 3751686.475 538.51
   LOCATION L0011370      VOLUME      471824.872 3751695.065 538.23
   LOCATION L0011371      VOLUME      471824.947 3751703.654 538.18
   LOCATION L0011372      VOLUME      471825.022 3751712.244 538.18
   LOCATION L0011373      VOLUME      471825.096 3751720.834 538.18
   LOCATION L0011374      VOLUME      471825.171 3751729.423 538.19
   LOCATION L0011375      VOLUME      471825.246 3751738.013 538.19
   LOCATION L0011376      VOLUME      471825.320 3751746.603 538.19
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   LOCATION L0011379      VOLUME      471825.545 3751772.372 538.20
   LOCATION L0011380      VOLUME      471825.619 3751780.961 538.20
   LOCATION L0011381      VOLUME      471825.694 3751789.551 538.20
   LOCATION L0011382      VOLUME      471825.769 3751798.141 538.21
   LOCATION L0011383      VOLUME      471825.843 3751806.730 538.21
   LOCATION L0011384      VOLUME      471825.918 3751815.320 538.21
   LOCATION L0011385      VOLUME      471825.993 3751823.910 537.92
   LOCATION L0011386      VOLUME      471826.067 3751832.499 537.57
   LOCATION L0011387      VOLUME      471826.142 3751841.089 537.23
   LOCATION L0011388      VOLUME      471826.217 3751849.679 536.92
   LOCATION L0011389      VOLUME      471826.291 3751858.268 536.70
   LOCATION L0011390      VOLUME      471826.366 3751866.858 536.48
** End of LINE VOLUME Source ID = SLINE33
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Bldg E Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.448E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
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** 471476.598, 3751257.177, 526.08, 3.49, 4.00
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   LOCATION L0011392      VOLUME      471471.010 3751490.608 534.49
   LOCATION L0011393      VOLUME      471471.216 3751482.021 534.71
   LOCATION L0011394      VOLUME      471471.421 3751473.433 534.87
   LOCATION L0011395      VOLUME      471471.627 3751464.846 535.03
   LOCATION L0011396      VOLUME      471471.832 3751456.258 535.17
   LOCATION L0011397      VOLUME      471472.038 3751447.671 534.99
   LOCATION L0011398      VOLUME      471472.243 3751439.083 534.82
   LOCATION L0011399      VOLUME      471472.449 3751430.496 534.64
   LOCATION L0011400      VOLUME      471472.655 3751421.908 534.41
   LOCATION L0011401      VOLUME      471472.860 3751413.321 534.11
   LOCATION L0011402      VOLUME      471473.066 3751404.733 533.82
   LOCATION L0011403      VOLUME      471473.271 3751396.145 533.52
   LOCATION L0011404      VOLUME      471473.477 3751387.558 533.09
   LOCATION L0011405      VOLUME      471473.682 3751378.970 532.66
   LOCATION L0011406      VOLUME      471473.888 3751370.383 532.23
   LOCATION L0011407      VOLUME      471474.093 3751361.795 531.79
   LOCATION L0011408      VOLUME      471474.299 3751353.208 531.34
   LOCATION L0011409      VOLUME      471474.505 3751344.620 530.90
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   LOCATION L0011411      VOLUME      471474.916 3751327.445 529.87
   LOCATION L0011412      VOLUME      471475.121 3751318.858 529.29
   LOCATION L0011413      VOLUME      471475.327 3751310.270 528.72
   LOCATION L0011414      VOLUME      471475.532 3751301.682 528.23
   LOCATION L0011415      VOLUME      471475.738 3751293.095 527.84
   LOCATION L0011416      VOLUME      471475.943 3751284.507 527.45
   LOCATION L0011417      VOLUME      471476.149 3751275.920 527.08
   LOCATION L0011418      VOLUME      471476.354 3751267.332 526.81
   LOCATION L0011419      VOLUME      471476.560 3751258.745 526.54
** End of LINE VOLUME Source ID = SLINE34
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Bldg F Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
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**  Vertical Dimension = 6.99
**  SZINIT = 3.25
**  Nodes = 2
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**  471422.225, 3751259.143, 524.24, 3.49, 4.00
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    LOCATION L0011421       VOLUME      471418.502 3751490.606 536.24
    LOCATION L0011422       VOLUME      471418.640 3751482.017 536.46
    LOCATION L0011423       VOLUME      471418.778 3751473.429 536.64
    LOCATION L0011424       VOLUME      471418.917 3751464.840 536.82
    LOCATION L0011425       VOLUME      471419.055 3751456.251 536.99
    LOCATION L0011426       VOLUME      471419.193 3751447.662 536.80
    LOCATION L0011427       VOLUME      471419.331 3751439.073 536.61
    LOCATION L0011428       VOLUME      471419.469 3751430.484 536.42
    LOCATION L0011429       VOLUME      471419.607 3751421.895 536.17
    LOCATION L0011430       VOLUME      471419.746 3751413.306 535.88
    LOCATION L0011431       VOLUME      471419.884 3751404.717 535.59
    LOCATION L0011432       VOLUME      471420.022 3751396.129 535.28
    LOCATION L0011433       VOLUME      471420.160 3751387.540 534.71
    LOCATION L0011434       VOLUME      471420.298 3751378.951 534.13
    LOCATION L0011435       VOLUME      471420.436 3751370.362 533.55
    LOCATION L0011436       VOLUME      471420.575 3751361.773 532.88
    LOCATION L0011437       VOLUME      471420.713 3751353.184 532.13
    LOCATION L0011438       VOLUME      471420.851 3751344.595 531.39
    LOCATION L0011439       VOLUME      471420.989 3751336.006 530.67
    LOCATION L0011440       VOLUME      471421.127 3751327.417 530.10
    LOCATION L0011441       VOLUME      471421.265 3751318.829 529.54
    LOCATION L0011442       VOLUME      471421.403 3751310.240 528.97
    LOCATION L0011443       VOLUME      471421.542 3751301.651 528.28
    LOCATION L0011444       VOLUME      471421.680 3751293.062 527.50
    LOCATION L0011445       VOLUME      471421.818 3751284.473 526.71
    LOCATION L0011446       VOLUME      471421.956 3751275.884 525.95
    LOCATION L0011447       VOLUME      471422.094 3751267.295 525.38
**  End of LINE VOLUME Source ID = SLINE35
**  ------------------------------------------------------------------------
**  Line Source Represented by Adjacent Volume Sources
**  LINE VOLUME Source ID = SLINE36
**  DESCRSRC Bldg G Onsite
**  PREFIX
**  Length of Side = 8.59
**  Configuration = Adjacent
**  Emission Rate = 2.681E-06
**  Vertical Dimension = 6.99
**  SZINIT = 3.25
**  Nodes = 4
**  471107.129, 3752267.320, 510.95, 3.49, 4.00
**  471107.129, 3752298.764, 509.32, 3.49, 4.00
**  471317.412, 3752299.419, 513.10, 3.49, 4.00
**  471317.412, 3752271.251, 515.31, 3.49, 4.00
**  ------------------------------------------------------------------------
    LOCATION L0011448       VOLUME      471107.129 3752271.615 511.01
    LOCATION L0011449       VOLUME      471107.129 3752280.205 510.58
    LOCATION L0011450       VOLUME      471107.129 3752288.795 510.15
    LOCATION L0011451       VOLUME      471107.129 3752297.385 509.77
    LOCATION L0011452       VOLUME      471114.340 3752298.787 510.48
    LOCATION L0011453       VOLUME      471122.930 3752298.813 511.30
    LOCATION L0011454       VOLUME      471131.520 3752298.840 511.94
    LOCATION L0011455       VOLUME      471140.110 3752298.867 511.98
    LOCATION L0011456       VOLUME      471148.700 3752298.894 512.02
    LOCATION L0011457       VOLUME      471157.290 3752298.920 512.06
    LOCATION L0011458       VOLUME      471165.880 3752298.947 512.47
    LOCATION L0011459       VOLUME      471174.470 3752298.974 513.00
    LOCATION L0011460       VOLUME      471183.060 3752299.001 513.52
    LOCATION L0011461       VOLUME      471191.649 3752299.028 513.92
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   LOCATION L0011462      VOLUME      471200.239 3752299.054 513.92
   LOCATION L0011463      VOLUME      471208.829 3752299.081 513.92
   LOCATION L0011464      VOLUME      471217.419 3752299.108 513.92
   LOCATION L0011465      VOLUME      471226.009 3752299.135 513.50
   LOCATION L0011466      VOLUME      471234.599 3752299.161 512.95
   LOCATION L0011467      VOLUME      471243.189 3752299.188 512.41
   LOCATION L0011468      VOLUME      471251.779 3752299.215 512.07
   LOCATION L0011469      VOLUME      471260.369 3752299.242 512.36
   LOCATION L0011470      VOLUME      471268.959 3752299.268 512.65
   LOCATION L0011471      VOLUME      471277.549 3752299.295 512.93
   LOCATION L0011472      VOLUME      471286.139 3752299.322 512.98
   LOCATION L0011473      VOLUME      471294.729 3752299.349 512.95
   LOCATION L0011474      VOLUME      471303.319 3752299.375 512.93
   LOCATION L0011475      VOLUME      471311.909 3752299.402 512.91
   LOCATION L0011476      VOLUME      471317.412 3752296.332 513.03
   LOCATION L0011477      VOLUME      471317.412 3752287.742 513.75
   LOCATION L0011478      VOLUME      471317.412 3752279.152 514.47
** End of LINE VOLUME Source ID = SLINE36
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Bldg H Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.668E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471343.615, 3752270.596, 516.97, 3.49, 4.00
** 471343.615, 3752300.729, 513.20, 3.49, 4.00
** 471551.932, 3752303.350, 521.01, 3.49, 4.00
** 471552.588, 3752273.216, 522.80, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011479      VOLUME      471343.615 3752274.891 515.97
   LOCATION L0011480      VOLUME      471343.615 3752283.481 514.91
   LOCATION L0011481      VOLUME      471343.615 3752292.071 513.84
   LOCATION L0011482      VOLUME      471343.615 3752300.661 513.14
   LOCATION L0011483      VOLUME      471352.135 3752300.837 513.70
   LOCATION L0011484      VOLUME      471360.725 3752300.945 514.27
   LOCATION L0011485      VOLUME      471369.314 3752301.053 514.84
   LOCATION L0011486      VOLUME      471377.903 3752301.161 514.77
   LOCATION L0011487      VOLUME      471386.493 3752301.269 514.67
   LOCATION L0011488      VOLUME      471395.082 3752301.377 514.57
   LOCATION L0011489      VOLUME      471403.671 3752301.485 514.54
   LOCATION L0011490      VOLUME      471412.261 3752301.593 514.57
   LOCATION L0011491      VOLUME      471420.850 3752301.701 514.61
   LOCATION L0011492      VOLUME      471429.439 3752301.809 514.65
   LOCATION L0011493      VOLUME      471438.029 3752301.917 515.36
   LOCATION L0011494      VOLUME      471446.618 3752302.025 516.08
   LOCATION L0011495      VOLUME      471455.207 3752302.133 516.81
   LOCATION L0011496      VOLUME      471463.797 3752302.241 517.47
   LOCATION L0011497      VOLUME      471472.386 3752302.349 518.05
   LOCATION L0011498      VOLUME      471480.975 3752302.457 518.62
   LOCATION L0011499      VOLUME      471489.565 3752302.565 519.20
   LOCATION L0011500      VOLUME      471498.154 3752302.673 519.66
   LOCATION L0011501      VOLUME      471506.743 3752302.781 520.12
   LOCATION L0011502      VOLUME      471515.333 3752302.889 520.57
   LOCATION L0011503      VOLUME      471523.922 3752302.997 520.79
   LOCATION L0011504      VOLUME      471532.511 3752303.106 520.78
   LOCATION L0011505      VOLUME      471541.101 3752303.214 520.78
   LOCATION L0011506      VOLUME      471549.690 3752303.322 520.77
   LOCATION L0011507      VOLUME      471552.070 3752297.004 520.90
   LOCATION L0011508      VOLUME      471552.257 3752288.416 521.41
   LOCATION L0011509      VOLUME      471552.444 3752279.828 521.92
** End of LINE VOLUME Source ID = SLINE37
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** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Bldg J Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.99E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471580.756, 3752273.871, 520.11, 3.49, 4.00
** 471580.101, 3752301.385, 519.97, 3.49, 4.00
** 471784.488, 3752302.695, 518.69, 3.49, 4.00
** 471784.488, 3752277.801, 519.06, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011510      VOLUME    471580.654 3752278.165 519.93
   LOCATION L0011511      VOLUME    471580.450 3752286.752 519.94
   LOCATION L0011512      VOLUME    471580.245 3752295.340 519.95
   LOCATION L0011513      VOLUME    471582.645 3752301.401 519.51
   LOCATION L0011514      VOLUME    471591.235 3752301.456 519.03
   LOCATION L0011515      VOLUME    471599.824 3752301.511 518.54
   LOCATION L0011516      VOLUME    471608.414 3752301.566 518.06
   LOCATION L0011517      VOLUME    471617.004 3752301.621 518.21
   LOCATION L0011518      VOLUME    471625.594 3752301.676 518.44
   LOCATION L0011519      VOLUME    471634.184 3752301.731 518.68
   LOCATION L0011520      VOLUME    471642.773 3752301.786 519.02
   LOCATION L0011521      VOLUME    471651.363 3752301.841 519.54
   LOCATION L0011522      VOLUME    471659.953 3752301.896 520.06
   LOCATION L0011523      VOLUME    471668.543 3752301.951 520.58
   LOCATION L0011524      VOLUME    471677.133 3752302.007 520.39
   LOCATION L0011525      VOLUME    471685.723 3752302.062 520.10
   LOCATION L0011526      VOLUME    471694.312 3752302.117 519.81
   LOCATION L0011527      VOLUME    471702.902 3752302.172 519.54
   LOCATION L0011528      VOLUME    471711.492 3752302.227 519.30
   LOCATION L0011529      VOLUME    471720.082 3752302.282 519.07
   LOCATION L0011530      VOLUME    471728.672 3752302.337 518.83
   LOCATION L0011531      VOLUME    471737.262 3752302.392 518.81
   LOCATION L0011532      VOLUME    471745.851 3752302.447 518.81
   LOCATION L0011533      VOLUME    471754.441 3752302.502 518.80
   LOCATION L0011534      VOLUME    471763.031 3752302.557 518.83
   LOCATION L0011535      VOLUME    471771.621 3752302.612 518.88
   LOCATION L0011536      VOLUME    471780.211 3752302.667 518.94
   LOCATION L0011537      VOLUME    471784.488 3752298.382 518.99
   LOCATION L0011538      VOLUME    471784.488 3752289.792 519.08
   LOCATION L0011539      VOLUME    471784.488 3752281.202 519.17
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Bldg K Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.936E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471784.488, 3752278.457, 519.06, 3.49, 4.00
** 471783.833, 3752303.350, 518.65, 3.49, 4.00
** 472054.383, 3752304.005, 515.09, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011540      VOLUME    471784.375 3752282.750 519.16
   LOCATION L0011541      VOLUME    471784.149 3752291.337 519.06
   LOCATION L0011542      VOLUME    471783.923 3752299.924 518.98
   LOCATION L0011543      VOLUME    471788.996 3752303.362 519.00
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   LOCATION L0011544      VOLUME     471797.586 3752303.383 517.13
   LOCATION L0011545      VOLUME     471806.176 3752303.404 515.13
   LOCATION L0011546      VOLUME     471814.766 3752303.425 513.12
   LOCATION L0011547      VOLUME     471823.356 3752303.446 512.22
   LOCATION L0011548      VOLUME     471831.946 3752303.466 512.73
   LOCATION L0011549      VOLUME     471840.536 3752303.487 513.24
   LOCATION L0011550      VOLUME     471849.126 3752303.508 513.74
   LOCATION L0011551      VOLUME     471857.716 3752303.529 514.38
   LOCATION L0011552      VOLUME     471866.306 3752303.549 515.01
   LOCATION L0011553      VOLUME     471874.896 3752303.570 515.65
   LOCATION L0011554      VOLUME     471883.486 3752303.591 516.10
   LOCATION L0011555      VOLUME     471892.076 3752303.612 516.32
   LOCATION L0011556      VOLUME     471900.666 3752303.633 516.54
   LOCATION L0011557      VOLUME     471909.256 3752303.653 516.76
   LOCATION L0011558      VOLUME     471917.846 3752303.674 516.70
   LOCATION L0011559      VOLUME     471926.436 3752303.695 516.63
   LOCATION L0011560      VOLUME     471935.026 3752303.716 516.56
   LOCATION L0011561      VOLUME     471943.616 3752303.737 516.46
   LOCATION L0011562      VOLUME     471952.206 3752303.757 516.30
   LOCATION L0011563      VOLUME     471960.796 3752303.778 516.15
   LOCATION L0011564      VOLUME     471969.386 3752303.799 516.00
   LOCATION L0011565      VOLUME     471977.975 3752303.820 515.80
   LOCATION L0011566      VOLUME     471986.565 3752303.841 515.59
   LOCATION L0011567      VOLUME     471995.155 3752303.861 515.38
   LOCATION L0011568      VOLUME     472003.745 3752303.882 515.14
   LOCATION L0011569      VOLUME     472012.335 3752303.903 514.85
   LOCATION L0011570      VOLUME     472020.925 3752303.924 514.56
   LOCATION L0011571      VOLUME     472029.515 3752303.945 514.27
   LOCATION L0011572      VOLUME     472038.105 3752303.965 514.06
   LOCATION L0011573      VOLUME     472046.695 3752303.986 513.84
** End of LINE VOLUME Source ID = SLINE39
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC MU 98k N Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.811E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471108.011, 3752252.737, 510.65, 3.49, 4.00
** 471088.082, 3752263.134, 509.92, 3.49, 4.00
** 471087.216, 3752138.365, 512.23, 3.49, 4.00
** 471105.411, 3752138.365, 512.82, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011574      VOLUME     471104.203 3752254.723 510.82
   LOCATION L0011575      VOLUME     471096.587 3752258.697 510.49
   LOCATION L0011576      VOLUME     471088.971 3752262.670 509.90
   LOCATION L0011577      VOLUME     471088.030 3752255.547 509.76
   LOCATION L0011578      VOLUME     471087.970 3752246.957 509.69
   LOCATION L0011579      VOLUME     471087.910 3752238.367 509.63
   LOCATION L0011580      VOLUME     471087.851 3752229.778 509.52
   LOCATION L0011581      VOLUME     471087.791 3752221.188 509.41
   LOCATION L0011582      VOLUME     471087.731 3752212.598 509.29
   LOCATION L0011583      VOLUME     471087.672 3752204.008 509.35
   LOCATION L0011584      VOLUME     471087.612 3752195.419 509.80
   LOCATION L0011585      VOLUME     471087.552 3752186.829 510.26
   LOCATION L0011586      VOLUME     471087.493 3752178.239 510.71
   LOCATION L0011587      VOLUME     471087.433 3752169.649 511.21
   LOCATION L0011588      VOLUME     471087.373 3752161.059 511.72
   LOCATION L0011589      VOLUME     471087.314 3752152.470 512.24
   LOCATION L0011590      VOLUME     471087.254 3752143.880 512.50
   LOCATION L0011591      VOLUME     471090.291 3752138.365 512.42
   LOCATION L0011592      VOLUME     471098.881 3752138.365 512.70
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** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC MU 77k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.443E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
** 471049.183, 3751936.315, 514.26, 3.49, 4.00
** 471025.238, 3751936.848, 512.71, 3.49, 4.00
** 471014.596, 3751940.040, 511.99, 3.49, 4.00
** 471051.312, 3752029.436, 515.14, 3.49, 4.00
** 471065.147, 3752023.583, 515.98, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011593      VOLUME     471044.889 3751936.411 514.52
   LOCATION L0011594      VOLUME     471036.302 3751936.602 513.78
   LOCATION L0011595      VOLUME     471027.714 3751936.793 513.21
   LOCATION L0011596      VOLUME     471019.382 3751938.604 512.63
   LOCATION L0011597      VOLUME     471015.961 3751943.364 512.38
   LOCATION L0011598      VOLUME     471019.224 3751951.310 512.49
   LOCATION L0011599      VOLUME     471022.488 3751959.255 512.54
   LOCATION L0011600      VOLUME     471025.751 3751967.201 512.56
   LOCATION L0011601      VOLUME     471029.015 3751975.147 512.93
   LOCATION L0011602      VOLUME     471032.278 3751983.093 513.31
   LOCATION L0011603      VOLUME     471035.542 3751991.039 513.68
   LOCATION L0011604      VOLUME     471038.805 3751998.985 514.05
   LOCATION L0011605      VOLUME     471042.069 3752006.931 514.48
   LOCATION L0011606      VOLUME     471045.332 3752014.877 514.88
   LOCATION L0011607      VOLUME     471048.596 3752022.823 515.21
   LOCATION L0011608      VOLUME     471052.638 3752028.875 515.36
   LOCATION L0011609      VOLUME     471060.549 3752025.528 515.69
** End of LINE VOLUME Source ID = SLINE41
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE42
** DESCRSRC MU 131k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.97E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471048.119, 3751831.488, 512.51, 3.49, 4.00
** 471028.963, 3751831.488, 514.06, 3.49, 4.00
** 471029.495, 3751725.596, 517.84, 3.49, 4.00
** 471046.523, 3751725.596, 518.09, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011610      VOLUME     471043.824 3751831.488 512.43
   LOCATION L0011611      VOLUME     471035.234 3751831.488 512.94
   LOCATION L0011612      VOLUME     471028.974 3751829.169 513.70
   LOCATION L0011613      VOLUME     471029.018 3751820.579 514.18
   LOCATION L0011614      VOLUME     471029.061 3751811.989 514.44
   LOCATION L0011615      VOLUME     471029.104 3751803.400 514.53
   LOCATION L0011616      VOLUME     471029.147 3751794.810 514.61
   LOCATION L0011617      VOLUME     471029.190 3751786.220 514.71
   LOCATION L0011618      VOLUME     471029.233 3751777.630 515.08
   LOCATION L0011619      VOLUME     471029.277 3751769.040 515.46
   LOCATION L0011620      VOLUME     471029.320 3751760.450 515.83
   LOCATION L0011621      VOLUME     471029.363 3751751.860 516.27
   LOCATION L0011622      VOLUME     471029.406 3751743.270 516.74
   LOCATION L0011623      VOLUME     471029.449 3751734.680 517.22
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   LOCATION L0011624      VOLUME      471029.492 3751726.091 517.69
   LOCATION L0011625      VOLUME      471037.591 3751725.596 517.97
   LOCATION L0011626      VOLUME      471046.181 3751725.596 518.26
** End of LINE VOLUME Source ID = SLINE42
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE43
** DESCRSRC MU 98k S Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.437E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471045.991, 3751685.155, 519.96, 3.49, 4.00
** 471028.431, 3751686.219, 519.11, 3.49, 4.00
** 471028.963, 3751588.309, 521.52, 3.49, 4.00
** 471049.715, 3751587.777, 522.51, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011627      VOLUME      471041.703 3751685.415 520.27
   LOCATION L0011628      VOLUME      471033.129 3751685.935 519.92
   LOCATION L0011629      VOLUME      471028.452 3751682.337 520.08
   LOCATION L0011630      VOLUME      471028.498 3751673.747 520.73
   LOCATION L0011631      VOLUME      471028.545 3751665.157 521.30
   LOCATION L0011632      VOLUME      471028.592 3751656.567 521.48
   LOCATION L0011633      VOLUME      471028.639 3751647.977 521.67
   LOCATION L0011634      VOLUME      471028.685 3751639.387 521.86
   LOCATION L0011635      VOLUME      471028.732 3751630.797 521.72
   LOCATION L0011636      VOLUME      471028.779 3751622.207 521.44
   LOCATION L0011637      VOLUME      471028.825 3751613.618 521.16
   LOCATION L0011638      VOLUME      471028.872 3751605.028 520.97
   LOCATION L0011639      VOLUME      471028.919 3751596.438 521.18
   LOCATION L0011640      VOLUME      471029.424 3751588.298 521.40
   LOCATION L0011641      VOLUME      471038.011 3751588.077 521.91
   LOCATION L0011642      VOLUME      471046.598 3751587.857 522.47
** End of LINE VOLUME Source ID = SLINE43
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE44
** DESCRSRC MU 110k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.895E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471143.092, 3751331.498, 523.06, 3.49, 4.00
** 471143.544, 3751499.315, 524.31, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0011643      VOLUME      471143.103 3751335.793 523.42
   LOCATION L0011644      VOLUME      471143.126 3751344.383 523.57
   LOCATION L0011645      VOLUME      471143.150 3751352.973 523.70
   LOCATION L0011646      VOLUME      471143.173 3751361.563 523.83
   LOCATION L0011647      VOLUME      471143.196 3751370.153 523.86
   LOCATION L0011648      VOLUME      471143.219 3751378.743 523.73
   LOCATION L0011649      VOLUME      471143.242 3751387.333 523.60
   LOCATION L0011650      VOLUME      471143.265 3751395.923 523.47
   LOCATION L0011651      VOLUME      471143.288 3751404.513 523.72
   LOCATION L0011652      VOLUME      471143.312 3751413.103 524.01
   LOCATION L0011653      VOLUME      471143.335 3751421.693 524.29
   LOCATION L0011654      VOLUME      471143.358 3751430.283 524.52
   LOCATION L0011655      VOLUME      471143.381 3751438.873 524.65
   LOCATION L0011656      VOLUME      471143.404 3751447.463 524.78
   LOCATION L0011657      VOLUME      471143.427 3751456.053 524.92
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      LOCATION L0011658      VOLUME      471143.451 3751464.643 524.80
      LOCATION L0011659      VOLUME      471143.474 3751473.233 524.67
      LOCATION L0011660      VOLUME      471143.497 3751481.823 524.54
      LOCATION L0011661      VOLUME      471143.520 3751490.413 524.47
      LOCATION L0011662      VOLUME      471143.543 3751499.003 524.47
** End of LINE VOLUME Source ID = SLINE44
      LOCATION VOL1          VOLUME      471181.960   3752304.060    513.370
      LOCATION VOL2          VOLUME      471239.319   3752304.480    512.590
      LOCATION VOL3          VOLUME      471418.605   3752307.879    514.110
      LOCATION VOL4          VOLUME      471478.083   3752306.179    518.550
      LOCATION VOL5          VOLUME      471654.820   3752307.879    519.450
      LOCATION VOL6          VOLUME      471701.554   3752307.029    519.260
      LOCATION VOL7          VOLUME      471898.684   3752304.480    516.470
      LOCATION VOL8          VOLUME      471954.764   3752304.480    516.240
      LOCATION VOL9          VOLUME      472010.844   3752304.480    514.840
      LOCATION VOL10         VOLUME      472064.374   3752303.630    513.360
      LOCATION VOL11         VOLUME      471824.760   3752143.037    522.690
      LOCATION VOL12         VOLUME      471825.610   3752089.507    526.290
      LOCATION VOL13         VOLUME      471827.309   3752034.276    528.710
      LOCATION VOL14         VOLUME      471828.159   3751980.745    532.340
      LOCATION VOL15         VOLUME      472066.074   3752185.522    521.180
      LOCATION VOL16         VOLUME      472066.924   3752131.142    523.290
      LOCATION VOL17         VOLUME      472067.773   3752074.212    522.950
      LOCATION VOL18         VOLUME      472067.773   3752015.583    522.440
      LOCATION VOL19         VOLUME      471830.708   3751782.766    538.370
      LOCATION VOL20         VOLUME      471831.557   3751722.437    538.400
      LOCATION VOL21         VOLUME      471277.555   3752206.765    518.000
      LOCATION VOL22         VOLUME      471334.485   3752208.464    519.710
      LOCATION VOL23         VOLUME      471390.565   3752207.614    522.600
      LOCATION VOL24         VOLUME      471447.494   3752209.314    525.240
      LOCATION VOL25         VOLUME      471503.574   3752211.013    525.110
      LOCATION VOL26         VOLUME      471558.805   3752211.013    525.090
      LOCATION VOL27         VOLUME      471614.885   3752210.163    524.830
      LOCATION VOL28         VOLUME      471670.965   3752210.163    525.880
      LOCATION VOL29         VOLUME      471726.195   3752210.163    524.110
      LOCATION VOL30         VOLUME      471277.555   3751951.761    522.090
      LOCATION VOL31         VOLUME      471334.485   3751953.461    522.830
      LOCATION VOL32         VOLUME      471390.565   3751952.611    525.770
      LOCATION VOL33         VOLUME      471447.494   3751954.310    529.200
      LOCATION VOL34         VOLUME      471503.574   3751956.010    531.630
      LOCATION VOL35         VOLUME      471558.805   3751956.010    534.510
      LOCATION VOL36         VOLUME      471614.885   3751955.160    535.890
      LOCATION VOL37         VOLUME      471670.965   3751955.160    534.120
      LOCATION VOL38         VOLUME      471726.195   3751955.160    531.620
      LOCATION VOL39         VOLUME      471239.319   3751839.601    518.990
      LOCATION VOL40         VOLUME      471296.248   3751841.301    523.710
      LOCATION VOL41         VOLUME      471352.328   3751840.451    523.540
      LOCATION VOL42         VOLUME      471409.258   3751842.150    525.220
      LOCATION VOL43         VOLUME      471465.338   3751843.850    528.370
      LOCATION VOL44         VOLUME      471520.568   3751843.850    531.100
      LOCATION VOL45         VOLUME      471576.648   3751843.000    535.570
      LOCATION VOL46         VOLUME      471632.728   3751843.000    535.970
      LOCATION VOL47         VOLUME      471687.959   3751843.000    536.000
      LOCATION VOL48         VOLUME      471240.168   3751577.045    528.370
      LOCATION VOL49         VOLUME      471297.098   3751578.744    530.670
      LOCATION VOL50         VOLUME      471353.178   3751577.894    536.480
      LOCATION VOL51         VOLUME      471410.108   3751579.594    535.200
      LOCATION VOL52         VOLUME      471466.188   3751581.293    532.400
      LOCATION VOL53         VOLUME      471521.418   3751581.293    530.780
      LOCATION VOL54         VOLUME      471577.498   3751580.444    529.870
      LOCATION VOL55         VOLUME      471633.578   3751580.444    529.130
      LOCATION VOL56         VOLUME      471688.808   3751580.444    530.460
      LOCATION VOL57         VOLUME      471743.189   3751843.094    536.450
      LOCATION VOL58         VOLUME      471749.987   3751788.714    536.680
      LOCATION VOL59         VOLUME      471749.987   3751733.483    535.750
      LOCATION VOL60         VOLUME      471750.836   3751679.953    535.710
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LOCATION VOL61          VOLUME      471752.536  3751624.722     534.770
LOCATION VOL62          VOLUME      471744.039  3751581.388     534.050
LOCATION VOL63          VOLUME      471477.234  3751395.304     533.340
LOCATION VOL64          VOLUME      471477.234  3751340.074     530.570
LOCATION VOL65          VOLUME      471478.933  3751284.843     527.580
LOCATION VOL66          VOLUME      471414.356  3751392.755     535.250
LOCATION VOL67          VOLUME      471416.905  3751338.374     530.740
LOCATION VOL68          VOLUME      471418.605  3751282.294     526.500
LOCATION VOL69          VOLUME      471143.303  3751416.546     524.120
LOCATION VOL70          VOLUME      471037.091  3751617.925     522.130
LOCATION VOL71          VOLUME      471036.241  3751660.410     521.970
LOCATION VOL72          VOLUME      471036.241  3751759.824     515.810
LOCATION VOL73          VOLUME      471036.241  3751798.060     513.920
LOCATION VOL74          VOLUME      471204.481  3751289.942     524.940
LOCATION VOL75          VOLUME      471037.940  3751990.942     513.760
LOCATION VOL76          VOLUME      471094.020  3752184.673     510.960
LOCATION VOL77          VOLUME      471093.171  3752238.203     509.820
LOCATION STCK1          POINT       471144.890  3752388.132     507.900
LOCATION STCK2          POINT       471301.573  3752383.918     512.670
LOCATION STCK3          POINT       471622.829  3752382.887     513.840
LOCATION STCK4          POINT       471805.219  3752371.930     508.900
LOCATION STCK5          POINT       471848.075  3752202.600     519.220
LOCATION STCK6          POINT       471211.824  3752184.959     517.560
LOCATION STCK7          POINT       471149.493  3751819.203     517.890
LOCATION STCK8          POINT       471850.427  3751834.492     537.800
LOCATION STCK9          POINT       471312.966  3751462.855     532.110
LOCATION STCK10         POINT       471494.079  3751465.208     533.850
LOCATION VOL78          VOLUME      471027.182  3751936.809     513.170
LOCATION STCK11         POINT       471017.588  3752268.779     506.200
LOCATION STCK12         POINT       470997.944  3752063.925     513.370
LOCATION STCK13         POINT       470933.401  3751828.203     517.410
LOCATION STCK14         POINT       470946.029  3751678.070     516.880
LOCATION STCK15         POINT       471164.914  3751464.798     525.780
LOCATION STCK16         POINT       471639.164  3751478.829     530.010
LOCATION STCK17         POINT       471404.845  3752382.430     509.270
LOCATION STCK18         POINT       471483.419  3752385.237     517.030
LOCATION STCK19         POINT       471954.863  3752378.221     513.280
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0012023   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012024   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012025   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012026   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012027   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012028   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012029   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012030   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012031   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012032   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012033   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012034   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012035   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012036   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012037   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012038   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012039   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012040   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012041   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012042   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012043   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012044   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012045   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012046   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012047   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012048   0.000006807      3.49      4.00      3.25
   SRCPARAM L0012049   0.000006807      3.49      4.00      3.25
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   SRCPARAM L0012050      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012051      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012052      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012053      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012054      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012055      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012056      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012057      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012058      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012059      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012060      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012061      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012062      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012063      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012064      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012065      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012066      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012067      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012068      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012069      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012070      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012071      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012072      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012073      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012074      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012075      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012076      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012077      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012078      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012079      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012080      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012081      0.000006807      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0012082      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012083      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012084      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012085      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012086      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012087      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012088      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012089      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012090      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012091      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012092      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012093      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012094      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012095      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012096      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012097      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012098      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012099      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012100      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012101      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012102      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012103      0.0000174609     3.49      4.00      3.25
   SRCPARAM L0012104      0.0000174609     3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0012105      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012106      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012107      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012108      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012109      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012110      0.000006807      3.49      4.00      3.25
   SRCPARAM L0012111      0.000006807      3.49      4.00      3.25
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   SRCPARAM L0012112     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012113     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012114     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012115     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012116     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012117     0.000006807      3.49     4.00      3.25
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   SRCPARAM L0012119     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012120     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012121     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012122     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012123     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012124     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012125     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012126     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012127     0.000006807      3.49     4.00      3.25
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   SRCPARAM L0012136     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012137     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012138     0.000006807      3.49     4.00      3.25
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   SRCPARAM L0012140     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012141     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012142     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012143     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012144     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012145     0.000006807      3.49     4.00      3.25
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   SRCPARAM L0012147     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012148     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012149     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012150     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012151     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012152     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012153     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012154     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012155     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012156     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012157     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012158     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012159     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012160     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012161     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012162     0.000006807      3.49     4.00      3.25
   SRCPARAM L0012163     0.000006807      3.49     4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0012164     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012165     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012166     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012167     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012168     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012169     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012170     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012171     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012172     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012173     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012174     0.000009419      3.49     4.00      3.25
   SRCPARAM L0012175     0.000009419      3.49     4.00      3.25
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   SRCPARAM L0012176      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012177      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012178      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012179      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012180      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012181      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012182      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012183      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012184      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012185      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012186      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012187      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012188      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012189      0.000009419      3.49      4.00      3.25
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   SRCPARAM L0012191      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012192      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012193      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012194      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012195      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012196      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012197      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012198      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012199      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012200      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012201      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012202      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012203      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012204      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012205      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012206      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012207      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012208      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012209      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012210      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012211      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012212      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012213      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012214      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012215      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012216      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012217      0.000009419      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0012218      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012219      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012220      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012221      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012222      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012223      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012224      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012225      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012226      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012227      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012228      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012229      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012230      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012231      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012232      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012233      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012234      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012235      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012236      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012237      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012238      0.000009419      3.49      4.00      3.25
   SRCPARAM L0012239      0.000009419      3.49      4.00      3.25
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   SRCPARAM L0012240      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012241      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012242      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012243      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012244      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012245      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012246      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012247      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012248      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012249      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012250      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012251      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012252      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012253      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012254      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012255      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012256      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012257      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012258      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012259      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012260      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012261      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012262      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012263      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012264      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012265      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012266      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012267      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012268      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012269      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012270      0.000009419       3.49      4.00      3.25
   SRCPARAM L0012271      0.000009419       3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0012272      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012273      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012274      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012275      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012276      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012277      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012278      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012279      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012280      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012281      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012282      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012283      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012284      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012285      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012286      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012287      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012288      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012289      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012290      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012291      0.0000119333      3.49      4.00      3.25
   SRCPARAM L0012292      0.0000119333      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0011933      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011934      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011935      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011936      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011937      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011938      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011939      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011940      0.0000005683      3.49      4.00      3.25
   SRCPARAM L0011941      0.0000005683      3.49      4.00      3.25
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    SRCPARAM L0011942     0.0000005683     3.49     4.00     3.25
    SRCPARAM L0011943     0.0000005683     3.49     4.00     3.25
    SRCPARAM L0011944     0.0000005683     3.49     4.00     3.25
    SRCPARAM L0011945     0.0000005683     3.49     4.00     3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
    SRCPARAM L0011946     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011947     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011948     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011949     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011950     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011951     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011952     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011953     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011954     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011955     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011956     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011957     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011958     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011959     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011960     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011961     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011962     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011963     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011964     0.0000004861     3.49     4.00     3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
    SRCPARAM L0011965     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011966     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011967     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011968     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011969     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011970     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011971     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011972     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011973     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011974     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011975     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011976     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011977     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011978     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011979     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011980     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011981     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011982     0.0000004861     3.49     4.00     3.25
    SRCPARAM L0011983     0.0000004861     3.49     4.00     3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
    SRCPARAM L0011984     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011985     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011986     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011987     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011988     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011989     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011990     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011991     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011992     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011993     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011994     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011995     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0011996     0.0000007104     3.49     4.00     3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
    SRCPARAM L0009769     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0009770     0.0000007104     3.49     4.00     3.25
    SRCPARAM L0009771     0.0000007104     3.49     4.00     3.25
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     SRCPARAM L0009772      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009773      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009774      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009775      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009776      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009777      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009778      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009779      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009780      0.0000007104      3.49      4.00      3.25
     SRCPARAM L0009781      0.0000007104      3.49      4.00      3.25
**  ---------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE12
     SRCPARAM L0012293      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012294      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012295      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012296      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012297      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012298      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012299      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012300      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012301      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012302      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012303      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012304      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012305      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012306      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012307      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012308      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012309      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012310      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012311      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012312      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012313      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012314      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012315      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012316      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012317      0.000009638       3.49      4.00      3.25
     SRCPARAM L0012318      0.000009638       3.49      4.00      3.25
**  ---------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE13
     SRCPARAM L0009808      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009809      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009810      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009811      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009812      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009813      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009814      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009815      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009816      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009817      0.0000006548      3.49      4.00      3.25
     SRCPARAM L0009818      0.0000006548      3.49      4.00      3.25
**  ---------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE14
     SRCPARAM L0009819      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009820      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009821      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009822      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009823      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009824      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009825      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009826      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009827      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009828      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009829      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009830      0.0000004398      3.49      4.00      3.25
     SRCPARAM L0009831      0.0000004398      3.49      4.00      3.25
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      SRCPARAM L0009832      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009833      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009834      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009835      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009836      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009837      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009838      0.0000004398      3.49      4.00      3.25
      SRCPARAM L0009839      0.0000004398      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE15
      SRCPARAM L0009840      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009841      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009842      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009843      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009844      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009845      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009846      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009847      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009848      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009849      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009850      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009851      0.0000003377      3.49      4.00      3.25
      SRCPARAM L0009852      0.0000003377      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE16
      SRCPARAM L0009853      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009854      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009855      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009856      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009857      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009858      0.0000004927      3.49      4.00      3.25
      SRCPARAM L0009859      0.0000004927      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE17
      SRCPARAM L0009860      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009861      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009862      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009863      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009864      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009865      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009866      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009867      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009868      0.0000005868      3.49      4.00      3.25
      SRCPARAM L0009869      0.0000005868      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE18
      SRCPARAM L0009870      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009871      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009872      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009873      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009874      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009875      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009876      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009877      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009878      0.000000439       3.49      4.00      3.25
      SRCPARAM L0009879      0.000000439       3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE19
      SRCPARAM L0009880      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009881      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009882      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009883      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009884      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009885      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009886      0.0000003519      3.49      4.00      3.25
      SRCPARAM L0009887      0.0000003519      3.49      4.00      3.25
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   SRCPARAM L0009888    0.0000003519    3.49    4.00    3.25
   SRCPARAM L0009889    0.0000003519    3.49    4.00    3.25
   SRCPARAM L0009890    0.0000003519    3.49    4.00    3.25
   SRCPARAM L0009891    0.0000003519    3.49    4.00    3.25
   SRCPARAM L0009892    0.0000003519    3.49    4.00    3.25
   SRCPARAM L0009893    0.0000003519    3.49    4.00    3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0012319    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012320    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012321    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012322    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012323    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012324    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012325    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012326    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012327    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012328    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012329    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012330    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012331    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012332    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012333    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012334    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012335    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012336    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012337    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012338    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012339    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012340    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012341    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012342    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012343    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012344    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012345    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012346    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012347    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012348    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012349    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012350    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012351    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012352    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012353    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012354    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012355    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012356    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012357    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012358    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012359    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012360    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012361    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012362    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012363    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012364    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012365    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012366    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012367    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012368    0.000001018     3.49    6.51    3.25
   SRCPARAM L0012369    0.000001018     3.49    6.51    3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0012370    0.000002528     3.49    6.51    3.25
   SRCPARAM L0012371    0.000002528     3.49    6.51    3.25
   SRCPARAM L0012372    0.000002528     3.49    6.51    3.25
   SRCPARAM L0012373    0.000002528     3.49    6.51    3.25
   SRCPARAM L0012374    0.000002528     3.49    6.51    3.25
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SRCPARAM L0012375    0.000002528    3.49    6.51    3.25
SRCPARAM L0012376    0.000002528    3.49    6.51    3.25
SRCPARAM L0012377    0.000002528    3.49    6.51    3.25
SRCPARAM L0012378    0.000002528    3.49    6.51    3.25
SRCPARAM L0012379    0.000002528    3.49    6.51    3.25
SRCPARAM L0012380    0.000002528    3.49    6.51    3.25
SRCPARAM L0012381    0.000002528    3.49    6.51    3.25
SRCPARAM L0012382    0.000002528    3.49    6.51    3.25
SRCPARAM L0012383    0.000002528    3.49    6.51    3.25
SRCPARAM L0012384    0.000002528    3.49    6.51    3.25
SRCPARAM L0012385    0.000002528    3.49    6.51    3.25
SRCPARAM L0012386    0.000002528    3.49    6.51    3.25
SRCPARAM L0012387    0.000002528    3.49    6.51    3.25
SRCPARAM L0012388    0.000002528    3.49    6.51    3.25
SRCPARAM L0012389    0.000002528    3.49    6.51    3.25
SRCPARAM L0012390    0.000002528    3.49    6.51    3.25
SRCPARAM L0012391    0.000002528    3.49    6.51    3.25
SRCPARAM L0012392    0.000002528    3.49    6.51    3.25
SRCPARAM L0012393    0.000002528    3.49    6.51    3.25
SRCPARAM L0012394    0.000002528    3.49    6.51    3.25
SRCPARAM L0012395    0.000002528    3.49    6.51    3.25
SRCPARAM L0012396    0.000002528    3.49    6.51    3.25
SRCPARAM L0012397    0.000002528    3.49    6.51    3.25
SRCPARAM L0012398    0.000002528    3.49    6.51    3.25
SRCPARAM L0012399    0.000002528    3.49    6.51    3.25
SRCPARAM L0012400    0.000002528    3.49    6.51    3.25
SRCPARAM L0012401    0.000002528    3.49    6.51    3.25
SRCPARAM L0012402    0.000002528    3.49    6.51    3.25
SRCPARAM L0012403    0.000002528    3.49    6.51    3.25
SRCPARAM L0012404    0.000002528    3.49    6.51    3.25
SRCPARAM L0012405    0.000002528    3.49    6.51    3.25
SRCPARAM L0012406    0.000002528    3.49    6.51    3.25
SRCPARAM L0012407    0.000002528    3.49    6.51    3.25
SRCPARAM L0012408    0.000002528    3.49    6.51    3.25
SRCPARAM L0012409    0.000002528    3.49    6.51    3.25
SRCPARAM L0012410    0.000002528    3.49    6.51    3.25
SRCPARAM L0012411    0.000002528    3.49    6.51    3.25
SRCPARAM L0012412    0.000002528    3.49    6.51    3.25
SRCPARAM L0012413    0.000002528    3.49    6.51    3.25
SRCPARAM L0012414    0.000002528    3.49    6.51    3.25
SRCPARAM L0012415    0.000002528    3.49    6.51    3.25
SRCPARAM L0012416    0.000002528    3.49    6.51    3.25
SRCPARAM L0012417    0.000002528    3.49    6.51    3.25
SRCPARAM L0012418    0.000002528    3.49    6.51    3.25
SRCPARAM L0012419    0.000002528    3.49    6.51    3.25
SRCPARAM L0012420    0.000002528    3.49    6.51    3.25
SRCPARAM L0012421    0.000002528    3.49    6.51    3.25
SRCPARAM L0012422    0.000002528    3.49    6.51    3.25
SRCPARAM L0012423    0.000002528    3.49    6.51    3.25
SRCPARAM L0012424    0.000002528    3.49    6.51    3.25
SRCPARAM L0012425    0.000002528    3.49    6.51    3.25
SRCPARAM L0012426    0.000002528    3.49    6.51    3.25
SRCPARAM L0012427    0.000002528    3.49    6.51    3.25
SRCPARAM L0012428    0.000002528    3.49    6.51    3.25
SRCPARAM L0012429    0.000002528    3.49    6.51    3.25
SRCPARAM L0012430    0.000002528    3.49    6.51    3.25
SRCPARAM L0012431    0.000002528    3.49    6.51    3.25
SRCPARAM L0012432    0.000002528    3.49    6.51    3.25
SRCPARAM L0012433    0.000002528    3.49    6.51    3.25
SRCPARAM L0012434    0.000002528    3.49    6.51    3.25
SRCPARAM L0012435    0.000002528    3.49    6.51    3.25
SRCPARAM L0012436    0.000002528    3.49    6.51    3.25
SRCPARAM L0012437    0.000002528    3.49    6.51    3.25
SRCPARAM L0012438    0.000002528    3.49    6.51    3.25
SRCPARAM L0012439    0.000002528    3.49    6.51    3.25
SRCPARAM L0012440    0.000002528    3.49    6.51    3.25
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   SRCPARAM L0012441      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012442      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012443      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012444      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012445      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012446      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012447      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012448      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012449      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012450      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012451      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012452      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012453      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012454      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012455      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012456      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012457      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012458      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012459      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012460      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012461      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012462      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012463      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012464      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012465      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012466      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012467      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012468      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012469      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012470      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012471      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012472      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012473      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012474      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012475      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012476      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012477      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012478      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012479      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012480      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012481      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012482      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012483      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012484      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012485      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012486      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012487      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012488      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012489      0.000002528      3.49       6.51       3.25
   SRCPARAM L0012490      0.000002528      3.49       6.51       3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0012491      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012492      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012493      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012494      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012495      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012496      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012497      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012498      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012499      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012500      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012501      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012502      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012503      0.0000006363     3.49       6.51       3.25
   SRCPARAM L0012504      0.0000006363     3.49       6.51       3.25
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   SRCPARAM L0012505    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012506    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012507    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012508    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012509    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012510    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012511    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012512    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012513    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012514    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012515    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012516    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012517    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012518    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012519    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012520    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012521    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012522    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012523    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012524    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012525    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012526    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012527    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012528    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012529    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012530    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012531    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012532    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012533    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012534    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012535    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012536    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012537    0.0000006363     3.49      6.51      3.25
   SRCPARAM L0012538    0.0000006363     3.49      6.51      3.25
** -----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0012539    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012540    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012541    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012542    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012543    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012544    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012545    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012546    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012547    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012548    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012549    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012550    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012551    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012552    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012553    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012554    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012555    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012556    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012557    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012558    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012559    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012560    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012561    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012562    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012563    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012564    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012565    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012566    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012567    0.0000007585     3.49      6.51      3.25
   SRCPARAM L0012568    0.0000007585     3.49      6.51      3.25
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       SRCPARAM L0012569        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012570        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012571        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012572        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012573        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012574        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012575        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012576        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012577        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012578        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012579        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012580        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012581        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012582        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012583        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012584        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012585        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012586        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012587        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012588        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012589        0.0000007585        3.49      6.51       3.25
       SRCPARAM L0012590        0.0000007585        3.49      6.51       3.25
**  ------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE24
       SRCPARAM L0012591        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012592        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012593        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012594        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012595        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012596        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012597        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012598        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012599        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012600        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012601        0.0000003806        3.49      6.51       3.25
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       SRCPARAM L0012611        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012612        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012613        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012614        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012615        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012616        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012617        0.0000003806        3.49      6.51       3.25
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       SRCPARAM L0012629        0.0000003806        3.49      6.51       3.25
       SRCPARAM L0012630        0.0000003806        3.49      6.51       3.25
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       SRCPARAM L0012632        0.0000003806        3.49      6.51       3.25
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     SRCPARAM L0012633      0.0000003806      3.49       6.51       3.25
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     SRCPARAM L0012635      0.0000003806      3.49       6.51       3.25
     SRCPARAM L0012636      0.0000003806      3.49       6.51       3.25
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     SRCPARAM L0012638      0.0000003806      3.49       6.51       3.25
     SRCPARAM L0012639      0.0000003806      3.49       6.51       3.25
     SRCPARAM L0012640      0.0000003806      3.49       6.51       3.25
     SRCPARAM L0012641      0.0000003806      3.49       6.51       3.25
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     SRCPARAM L0012649      0.0000007635      3.49       6.51       3.25
     SRCPARAM L0012650      0.0000007635      3.49       6.51       3.25
     SRCPARAM L0012651      0.0000007635      3.49       6.51       3.25
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     SRCPARAM L0012654      0.0000007635      3.49       6.51       3.25
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     SRCPARAM L0012659      0.0000007635      3.49       6.51       3.25
     SRCPARAM L0012660      0.0000007635      3.49       6.51       3.25
     SRCPARAM L0012661      0.0000007635      3.49       6.51       3.25
     SRCPARAM L0012662      0.0000007635      3.49       6.51       3.25
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     SRCPARAM L0012666      0.0000007635      3.49       6.51       3.25
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     SRCPARAM L0012675      0.0000007635      3.49       6.51       3.25
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     SRCPARAM L0012693      0.0000007635      3.49       6.51       3.25
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**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE26
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SRCPARAM L0012712    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0012716    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0012718    0.0000001264    3.49    6.51    3.25
SRCPARAM L0012719    0.0000001264    3.49    6.51    3.25
SRCPARAM L0012720    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0012889    0.0000001264    3.49    6.51    3.25
SRCPARAM L0012890    0.0000001264    3.49    6.51    3.25
SRCPARAM L0012891    0.0000001264    3.49    6.51    3.25
SRCPARAM L0012892    0.0000001264    3.49    6.51    3.25
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      SRCPARAM L0012893     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012894     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012895     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012896     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012897     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012898     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012899     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012900     0.0000001264      3.49      6.51      3.25
      SRCPARAM L0012901     0.0000001264      3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE27
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      SRCPARAM L0012904     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012905     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012907     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012908     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012909     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012910     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012911     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012912     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012913     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012914     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012915     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012916     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012917     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012918     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012919     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012920     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012921     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012922     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012923     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012924     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012925     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012926     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012929     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012930     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012931     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012932     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012934     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012935     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012936     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012937     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012938     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012939     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012940     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012941     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012944     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012949     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012950     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012952     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012953     0.0000002533      3.49      6.51      3.25
      SRCPARAM L0012954     0.0000002533      3.49      6.51      3.25
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      SRCPARAM L0012956     0.0000002533      3.49      6.51      3.25
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SRCPARAM L0012961    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012962    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012963    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012964    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0012966    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012967    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012968    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012969    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012970    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012971    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012972    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012973    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012974    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012975    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012976    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012977    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0012979    0.0000002533    3.49    6.51    3.25
SRCPARAM L0012980    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0012982    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0012988    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0012999    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013000    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013001    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013002    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013003    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013004    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013022    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013039    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013040    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013065    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013066    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013068    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013077    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013082    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013083    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013084    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013085    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013086    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013087    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013088    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013089    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013090    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013091    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013092    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013093    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013094    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013095    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013096    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013097    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013098    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013099    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013111    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013112    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013113    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013114    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013115    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013116    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013119    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013120    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013121    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013122    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013123    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013125    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013126    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013127    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013128    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013129    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013132    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013133    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013137    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013138    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013139    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013140    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013141    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013142    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013143    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013144    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013145    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013146    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013147    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013148    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013149    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013150    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013151    0.0000002533    3.49    6.51    3.25
SRCPARAM L0013152    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0013154    0.0000002533    3.49    6.51    3.25
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   SRCPARAM L0013159      0.0000002533      3.49      6.51      3.25
   SRCPARAM L0013160      0.0000002533      3.49      6.51      3.25
   SRCPARAM L0013161      0.0000002533      3.49      6.51      3.25
   SRCPARAM L0013162      0.0000002533      3.49      6.51      3.25
   SRCPARAM L0013163      0.0000002533      3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE28
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   SRCPARAM L0013167      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013168      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013169      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013170      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013171      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013172      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013173      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013174      0.000002155       3.49      6.51      3.25
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   SRCPARAM L0013176      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013177      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013178      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013179      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013180      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013181      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013182      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013183      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013184      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013185      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013186      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013187      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013188      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013189      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013190      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013191      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013192      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013193      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013194      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013195      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013196      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013197      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013198      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013199      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013200      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013201      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013202      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013203      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013204      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013205      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013206      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013207      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013208      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013209      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013210      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013211      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013212      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013213      0.0000002155      3.49      6.51      3.25
   SRCPARAM L0013214      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013215      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013216      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013217      0.000002155       3.49      6.51      3.25
   SRCPARAM L0013218      0.000002155       3.49      6.51      3.25
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     SRCPARAM L0013219      0.000002155      3.49      6.51      3.25
     SRCPARAM L0013220      0.000002155      3.49      6.51      3.25
     SRCPARAM L0013221      0.000002155      3.49      6.51      3.25
     SRCPARAM L0013222      0.000002155      3.49      6.51      3.25
     SRCPARAM L0013223      0.000002155      3.49      6.51      3.25
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE29
     SRCPARAM L0013224      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013225      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013226      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013227      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013228      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013229      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013230      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013231      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013232      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013233      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013234      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013235      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013236      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013237      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013238      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013239      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013240      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013241      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013242      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013243      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013244      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013245      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013246      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013247      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013248      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013249      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013250      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013251      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013252      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013253      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013254      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013255      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013256      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013257      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013258      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013259      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013260      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013261      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013262      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013263      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013264      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013265      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013266      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013267      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013268      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013269      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013270      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013271      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013272      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013273      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013274      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013275      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013276      0.00000007561    3.49      6.51      3.25
     SRCPARAM L0013277      0.0000007561     3.49      6.51      3.25
     SRCPARAM L0013278      0.0000007561     3.49      6.51      3.25
     SRCPARAM L0013279      0.0000007561     3.49      6.51      3.25
     SRCPARAM L0013280      0.0000007561     3.49      6.51      3.25
     SRCPARAM L0013281      0.0000007561     3.49      6.51      3.25
     SRCPARAM L0013282      0.00000007561    3.49      6.51      3.25
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   SRCPARAM L0013283      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013284      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013285      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013286      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013287      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013288      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013289      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013290      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013291      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013292      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013293      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013294      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013295      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013296      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013297      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013298      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013299      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013300      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013301      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013302      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013303      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013304      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013305      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013306      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013307      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013308      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013309      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013310      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013311      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013312      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013313      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013314      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013315      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013316      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013317      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013318      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013319      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013320      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013321      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013322      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013323      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013324      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013325      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013326      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013327      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013328      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013329      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013330      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013331      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013332      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013333      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013334      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013335      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013336      0.00000007561      3.49      6.51      3.25
   SRCPARAM L0013337      0.00000007561      3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013338      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013339      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013340      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013341      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013342      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013343      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013344      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013345      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013346      0.000001459      3.49      4.00      3.25
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SRCPARAM L0013347      0.000001459      3.49      4.00      3.25
SRCPARAM L0013348      0.000001459      3.49      4.00      3.25
SRCPARAM L0013349      0.000001459      3.49      4.00      3.25
SRCPARAM L0013350      0.000001459      3.49      4.00      3.25
SRCPARAM L0013351      0.000001459      3.49      4.00      3.25
SRCPARAM L0013352      0.000001459      3.49      4.00      3.25
SRCPARAM L0013353      0.000001459      3.49      4.00      3.25
SRCPARAM L0013354      0.000001459      3.49      4.00      3.25
SRCPARAM L0013355      0.000001459      3.49      4.00      3.25
SRCPARAM L0013356      0.000001459      3.49      4.00      3.25
SRCPARAM L0013357      0.000001459      3.49      4.00      3.25
SRCPARAM L0013358      0.000001459      3.49      4.00      3.25
SRCPARAM L0013359      0.000001459      3.49      4.00      3.25
SRCPARAM L0013360      0.000001459      3.49      4.00      3.25
SRCPARAM L0013361      0.000001459      3.49      4.00      3.25
SRCPARAM L0013362      0.000001459      3.49      4.00      3.25
SRCPARAM L0013363      0.000001459      3.49      4.00      3.25
SRCPARAM L0013364      0.000001459      3.49      4.00      3.25
SRCPARAM L0013365      0.000001459      3.49      4.00      3.25
SRCPARAM L0013366      0.000001459      3.49      4.00      3.25
SRCPARAM L0013367      0.000001459      3.49      4.00      3.25
SRCPARAM L0013368      0.000001459      3.49      4.00      3.25
SRCPARAM L0013369      0.000001459      3.49      4.00      3.25
SRCPARAM L0013370      0.000001459      3.49      4.00      3.25
SRCPARAM L0013371      0.000001459      3.49      4.00      3.25
SRCPARAM L0013372      0.000001459      3.49      4.00      3.25
SRCPARAM L0013373      0.000001459      3.49      4.00      3.25
SRCPARAM L0013374      0.000001459      3.49      4.00      3.25
SRCPARAM L0013375      0.000001459      3.49      4.00      3.25
SRCPARAM L0013376      0.000001459      3.49      4.00      3.25
SRCPARAM L0013377      0.000001459      3.49      4.00      3.25
SRCPARAM L0013378      0.000001459      3.49      4.00      3.25
SRCPARAM L0013379      0.000001459      3.49      4.00      3.25
SRCPARAM L0013380      0.000001459      3.49      4.00      3.25
SRCPARAM L0013381      0.000001459      3.49      4.00      3.25
SRCPARAM L0013382      0.000001459      3.49      4.00      3.25
SRCPARAM L0013383      0.000001459      3.49      4.00      3.25
SRCPARAM L0013384      0.000001459      3.49      4.00      3.25
SRCPARAM L0013385      0.000001459      3.49      4.00      3.25
SRCPARAM L0013386      0.000001459      3.49      4.00      3.25
SRCPARAM L0013387      0.000001459      3.49      4.00      3.25
SRCPARAM L0013388      0.000001459      3.49      4.00      3.25
SRCPARAM L0013389      0.000001459      3.49      4.00      3.25
SRCPARAM L0013390      0.000001459      3.49      4.00      3.25
SRCPARAM L0013391      0.000001459      3.49      4.00      3.25
SRCPARAM L0013392      0.000001459      3.49      4.00      3.25
SRCPARAM L0013393      0.000001459      3.49      4.00      3.25
SRCPARAM L0013394      0.000001459      3.49      4.00      3.25
SRCPARAM L0013395      0.000001459      3.49      4.00      3.25
SRCPARAM L0013396      0.000001459      3.49      4.00      3.25
SRCPARAM L0013397      0.000001459      3.49      4.00      3.25
SRCPARAM L0013398      0.000001459      3.49      4.00      3.25
SRCPARAM L0013399      0.000001459      3.49      4.00      3.25
SRCPARAM L0013400      0.000001459      3.49      4.00      3.25
SRCPARAM L0013401      0.000001459      3.49      4.00      3.25
SRCPARAM L0013402      0.000001459      3.49      4.00      3.25
SRCPARAM L0013403      0.000001459      3.49      4.00      3.25
SRCPARAM L0013404      0.000001459      3.49      4.00      3.25
SRCPARAM L0013405      0.000001459      3.49      4.00      3.25
SRCPARAM L0013406      0.000001459      3.49      4.00      3.25
SRCPARAM L0013407      0.000001459      3.49      4.00      3.25
SRCPARAM L0013408      0.000001459      3.49      4.00      3.25
SRCPARAM L0013409      0.000001459      3.49      4.00      3.25
SRCPARAM L0013410      0.000001459      3.49      4.00      3.25
SRCPARAM L0013411      0.000001459      3.49      4.00      3.25
SRCPARAM L0013412      0.000001459      3.49      4.00      3.25
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SRCPARAM L0013413     0.000001459     3.49     4.00     3.25
SRCPARAM L0013414     0.000001459     3.49     4.00     3.25
SRCPARAM L0013415     0.000001459     3.49     4.00     3.25
SRCPARAM L0013416     0.000001459     3.49     4.00     3.25
SRCPARAM L0013417     0.000001459     3.49     4.00     3.25
SRCPARAM L0013418     0.000001459     3.49     4.00     3.25
SRCPARAM L0013419     0.000001459     3.49     4.00     3.25
SRCPARAM L0013420     0.000001459     3.49     4.00     3.25
SRCPARAM L0013421     0.000001459     3.49     4.00     3.25
SRCPARAM L0013422     0.000001459     3.49     4.00     3.25
SRCPARAM L0013423     0.000001459     3.49     4.00     3.25
SRCPARAM L0013424     0.000001459     3.49     4.00     3.25
SRCPARAM L0013425     0.000001459     3.49     4.00     3.25
SRCPARAM L0013426     0.000001459     3.49     4.00     3.25
SRCPARAM L0013427     0.000001459     3.49     4.00     3.25
SRCPARAM L0013428     0.000001459     3.49     4.00     3.25
SRCPARAM L0013429     0.000001459     3.49     4.00     3.25
SRCPARAM L0013430     0.000001459     3.49     4.00     3.25
SRCPARAM L0013431     0.000001459     3.49     4.00     3.25
SRCPARAM L0013432     0.000001459     3.49     4.00     3.25
SRCPARAM L0013433     0.000001459     3.49     4.00     3.25
SRCPARAM L0013434     0.000001459     3.49     4.00     3.25
SRCPARAM L0013435     0.000001459     3.49     4.00     3.25
SRCPARAM L0013436     0.000001459     3.49     4.00     3.25
SRCPARAM L0013437     0.000001459     3.49     4.00     3.25
SRCPARAM L0013438     0.000001459     3.49     4.00     3.25
SRCPARAM L0013439     0.000001459     3.49     4.00     3.25
SRCPARAM L0013440     0.000001459     3.49     4.00     3.25
SRCPARAM L0013441     0.000001459     3.49     4.00     3.25
SRCPARAM L0013442     0.000001459     3.49     4.00     3.25
SRCPARAM L0013443     0.000001459     3.49     4.00     3.25
SRCPARAM L0013444     0.000001459     3.49     4.00     3.25
SRCPARAM L0013445     0.000001459     3.49     4.00     3.25
SRCPARAM L0013446     0.000001459     3.49     4.00     3.25
SRCPARAM L0013447     0.000001459     3.49     4.00     3.25
SRCPARAM L0013448     0.000001459     3.49     4.00     3.25
SRCPARAM L0013449     0.000001459     3.49     4.00     3.25
SRCPARAM L0013450     0.000001459     3.49     4.00     3.25
SRCPARAM L0013451     0.000001459     3.49     4.00     3.25
SRCPARAM L0013452     0.000001459     3.49     4.00     3.25
SRCPARAM L0013453     0.000001459     3.49     4.00     3.25
SRCPARAM L0013454     0.000001459     3.49     4.00     3.25
SRCPARAM L0013455     0.000001459     3.49     4.00     3.25
SRCPARAM L0013456     0.000001459     3.49     4.00     3.25
SRCPARAM L0013457     0.000001459     3.49     4.00     3.25
SRCPARAM L0013458     0.000001459     3.49     4.00     3.25
SRCPARAM L0013459     0.000001459     3.49     4.00     3.25
SRCPARAM L0013460     0.000001459     3.49     4.00     3.25
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SRCPARAM L0013462     0.000001459     3.49     4.00     3.25
SRCPARAM L0013463     0.000001459     3.49     4.00     3.25
SRCPARAM L0013464     0.000001459     3.49     4.00     3.25
SRCPARAM L0013465     0.000001459     3.49     4.00     3.25
SRCPARAM L0013466     0.000001459     3.49     4.00     3.25
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SRCPARAM L0013468     0.000001459     3.49     4.00     3.25
SRCPARAM L0013469     0.000001459     3.49     4.00     3.25
SRCPARAM L0013470     0.000001459     3.49     4.00     3.25
SRCPARAM L0013471     0.000001459     3.49     4.00     3.25
SRCPARAM L0013472     0.000001459     3.49     4.00     3.25
SRCPARAM L0013473     0.000001459     3.49     4.00     3.25
SRCPARAM L0013474     0.000001459     3.49     4.00     3.25
SRCPARAM L0013475     0.000001459     3.49     4.00     3.25
SRCPARAM L0013476     0.000001459     3.49     4.00     3.25
SRCPARAM L0013477     0.000001459     3.49     4.00     3.25
SRCPARAM L0013478     0.000001459     3.49     4.00     3.25
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   SRCPARAM L0013479      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013480      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013481      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013482      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013483      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013484      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013485      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013486      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013487      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013488      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013489      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013490      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013491      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013492      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013493      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013494      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013495      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013496      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013497      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013498      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013499      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013500      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013501      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013502      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013503      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013504      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013505      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013506      0.000001459      3.49      4.00      3.25
   SRCPARAM L0013507      0.000001459      3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE31
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   SRCPARAM L0013510      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013511      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013512      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013513      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013514      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013515      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013516      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013517      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013518      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013519      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013520      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013521      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013522      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013523      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013524      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013525      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013526      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013527      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013528      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013529      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013530      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013531      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013532      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013533      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013534      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013535      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013536      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013537      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013538      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013539      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013540      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013541      0.000001869      3.49      4.00      3.25
   SRCPARAM L0013542      0.000001869      3.49      4.00      3.25
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SRCPARAM L0013545    0.000001869    3.49    4.00    3.25
SRCPARAM L0013546    0.000001869    3.49    4.00    3.25
SRCPARAM L0013547    0.000001869    3.49    4.00    3.25
SRCPARAM L0013548    0.000001869    3.49    4.00    3.25
SRCPARAM L0013549    0.000001869    3.49    4.00    3.25
SRCPARAM L0013550    0.000001869    3.49    4.00    3.25
SRCPARAM L0013551    0.000001869    3.49    4.00    3.25
SRCPARAM L0013552    0.000001869    3.49    4.00    3.25
SRCPARAM L0013553    0.000001869    3.49    4.00    3.25
SRCPARAM L0013554    0.000001869    3.49    4.00    3.25
SRCPARAM L0013555    0.000001869    3.49    4.00    3.25
SRCPARAM L0013556    0.000001869    3.49    4.00    3.25
SRCPARAM L0013557    0.000001869    3.49    4.00    3.25
SRCPARAM L0013558    0.000001869    3.49    4.00    3.25
SRCPARAM L0013559    0.000001869    3.49    4.00    3.25
SRCPARAM L0013560    0.000001869    3.49    4.00    3.25
SRCPARAM L0013561    0.000001869    3.49    4.00    3.25
SRCPARAM L0013562    0.000001869    3.49    4.00    3.25
SRCPARAM L0013563    0.000001869    3.49    4.00    3.25
SRCPARAM L0013564    0.000001869    3.49    4.00    3.25
SRCPARAM L0013565    0.000001869    3.49    4.00    3.25
SRCPARAM L0013566    0.000001869    3.49    4.00    3.25
SRCPARAM L0013567    0.000001869    3.49    4.00    3.25
SRCPARAM L0013568    0.000001869    3.49    4.00    3.25
SRCPARAM L0013569    0.000001869    3.49    4.00    3.25
SRCPARAM L0013570    0.000001869    3.49    4.00    3.25
SRCPARAM L0013571    0.000001869    3.49    4.00    3.25
SRCPARAM L0013572    0.000001869    3.49    4.00    3.25
SRCPARAM L0013573    0.000001869    3.49    4.00    3.25
SRCPARAM L0013574    0.000001869    3.49    4.00    3.25
SRCPARAM L0013575    0.000001869    3.49    4.00    3.25
SRCPARAM L0013576    0.000001869    3.49    4.00    3.25
SRCPARAM L0013577    0.000001869    3.49    4.00    3.25
SRCPARAM L0013578    0.000001869    3.49    4.00    3.25
SRCPARAM L0013579    0.000001869    3.49    4.00    3.25
SRCPARAM L0013580    0.000001869    3.49    4.00    3.25
SRCPARAM L0013581    0.000001869    3.49    4.00    3.25
SRCPARAM L0013582    0.000001869    3.49    4.00    3.25
SRCPARAM L0013583    0.000001869    3.49    4.00    3.25
SRCPARAM L0013584    0.000001869    3.49    4.00    3.25
SRCPARAM L0013585    0.000001869    3.49    4.00    3.25
SRCPARAM L0013586    0.000001869    3.49    4.00    3.25
SRCPARAM L0013587    0.000001869    3.49    4.00    3.25
SRCPARAM L0013588    0.000001869    3.49    4.00    3.25
SRCPARAM L0013589    0.000001869    3.49    4.00    3.25
SRCPARAM L0013590    0.000001869    3.49    4.00    3.25
SRCPARAM L0013591    0.000001869    3.49    4.00    3.25
SRCPARAM L0013592    0.000001869    3.49    4.00    3.25
SRCPARAM L0013593    0.000001869    3.49    4.00    3.25
SRCPARAM L0013594    0.000001869    3.49    4.00    3.25
SRCPARAM L0013595    0.000001869    3.49    4.00    3.25
SRCPARAM L0013596    0.000001869    3.49    4.00    3.25
SRCPARAM L0013597    0.000001869    3.49    4.00    3.25
SRCPARAM L0013598    0.000001869    3.49    4.00    3.25
SRCPARAM L0013599    0.000001869    3.49    4.00    3.25
SRCPARAM L0013600    0.000001869    3.49    4.00    3.25
SRCPARAM L0013601    0.000001869    3.49    4.00    3.25
SRCPARAM L0013602    0.000001869    3.49    4.00    3.25
SRCPARAM L0013603    0.000001869    3.49    4.00    3.25
SRCPARAM L0013604    0.000001869    3.49    4.00    3.25
SRCPARAM L0013605    0.000001869    3.49    4.00    3.25
SRCPARAM L0013606    0.000001869    3.49    4.00    3.25
SRCPARAM L0013607    0.000001869    3.49    4.00    3.25
SRCPARAM L0013608    0.000001869    3.49    4.00    3.25
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SRCPARAM L0013609     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013611     0.000001869     3.49     4.00     3.25
SRCPARAM L0013612     0.000001869     3.49     4.00     3.25
SRCPARAM L0013613     0.000001869     3.49     4.00     3.25
SRCPARAM L0013614     0.000001869     3.49     4.00     3.25
SRCPARAM L0013615     0.000001869     3.49     4.00     3.25
SRCPARAM L0013616     0.000001869     3.49     4.00     3.25
SRCPARAM L0013617     0.000001869     3.49     4.00     3.25
SRCPARAM L0013618     0.000001869     3.49     4.00     3.25
SRCPARAM L0013619     0.000001869     3.49     4.00     3.25
SRCPARAM L0013620     0.000001869     3.49     4.00     3.25
SRCPARAM L0013621     0.000001869     3.49     4.00     3.25
SRCPARAM L0013622     0.000001869     3.49     4.00     3.25
SRCPARAM L0013623     0.000001869     3.49     4.00     3.25
SRCPARAM L0013624     0.000001869     3.49     4.00     3.25
SRCPARAM L0013625     0.000001869     3.49     4.00     3.25
SRCPARAM L0013626     0.000001869     3.49     4.00     3.25
SRCPARAM L0013627     0.000001869     3.49     4.00     3.25
SRCPARAM L0013628     0.000001869     3.49     4.00     3.25
SRCPARAM L0013629     0.000001869     3.49     4.00     3.25
SRCPARAM L0013630     0.000001869     3.49     4.00     3.25
SRCPARAM L0013631     0.000001869     3.49     4.00     3.25
SRCPARAM L0013632     0.000001869     3.49     4.00     3.25
SRCPARAM L0013633     0.000001869     3.49     4.00     3.25
SRCPARAM L0013634     0.000001869     3.49     4.00     3.25
SRCPARAM L0013635     0.000001869     3.49     4.00     3.25
SRCPARAM L0013636     0.000001869     3.49     4.00     3.25
SRCPARAM L0013637     0.000001869     3.49     4.00     3.25
SRCPARAM L0013638     0.000001869     3.49     4.00     3.25
SRCPARAM L0013639     0.000001869     3.49     4.00     3.25
SRCPARAM L0013640     0.000001869     3.49     4.00     3.25
SRCPARAM L0013641     0.000001869     3.49     4.00     3.25
SRCPARAM L0013642     0.000001869     3.49     4.00     3.25
SRCPARAM L0013643     0.000001869     3.49     4.00     3.25
SRCPARAM L0013644     0.000001869     3.49     4.00     3.25
SRCPARAM L0013645     0.000001869     3.49     4.00     3.25
SRCPARAM L0013646     0.000001869     3.49     4.00     3.25
SRCPARAM L0013647     0.000001869     3.49     4.00     3.25
SRCPARAM L0013648     0.000001869     3.49     4.00     3.25
SRCPARAM L0013649     0.000001869     3.49     4.00     3.25
SRCPARAM L0013650     0.000001869     3.49     4.00     3.25
SRCPARAM L0013651     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013653     0.000001869     3.49     4.00     3.25
SRCPARAM L0013654     0.000001869     3.49     4.00     3.25
SRCPARAM L0013655     0.000001869     3.49     4.00     3.25
SRCPARAM L0013656     0.000001869     3.49     4.00     3.25
SRCPARAM L0013657     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013660     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013662     0.000001869     3.49     4.00     3.25
SRCPARAM L0013663     0.000001869     3.49     4.00     3.25
SRCPARAM L0013664     0.000001869     3.49     4.00     3.25
SRCPARAM L0013665     0.000001869     3.49     4.00     3.25
SRCPARAM L0013666     0.000001869     3.49     4.00     3.25
SRCPARAM L0013667     0.000001869     3.49     4.00     3.25
SRCPARAM L0013668     0.000001869     3.49     4.00     3.25
SRCPARAM L0013669     0.000001869     3.49     4.00     3.25
SRCPARAM L0013670     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013672     0.000001869     3.49     4.00     3.25
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SRCPARAM L0013674     0.000001869     3.49     4.00     3.25
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   SRCPARAM L0013684      0.000001869       3.49      4.00      3.25
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** LINE VOLUME Source ID = SLINE32
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   SRCPARAM L0013686      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013692      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013693      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013694      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013695      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013696      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013698      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013699      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013700      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013701      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013702      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013703      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013704      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013705      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013712      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013713      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013714      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013716      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013719      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013720      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013721      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013722      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013723      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013724      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013725      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013726      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013727      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013728      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013729      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013730      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013731      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013732      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013733      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013734      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013735      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013736      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013737      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013738      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013739      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013746      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013747      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013748      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013749      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013750      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013752      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013753      0.0000007994      3.49      4.00      3.25
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   SRCPARAM L0013756      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013757      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013758      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013759      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013760      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013761      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013762      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013763      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013764      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013765      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013766      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013767      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013768      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013769      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013770      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013771      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013772      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013773      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013774      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013775      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013776      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013777      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013778      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013779      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013780      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013781      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013782      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013783      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013784      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013785      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0013786      0.0000007994      3.49      4.00      3.25
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0011362      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011363      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011364      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011365      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011366      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011367      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011368      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011369      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011370      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011371      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011372      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011373      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011374      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011375      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011376      0.00000006859     3.49      4.00      3.25
   SRCPARAM L0011377      0.00000006859     3.49      4.00      3.25
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   SRCPARAM L0011378      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011379      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011380      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011381      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011382      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011383      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011384      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011385      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011386      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011387      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011388      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011389      0.00000006859        3.49        4.00       3.25
   SRCPARAM L0011390      0.00000006859        3.49        4.00       3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0011391      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011392      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011393      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011394      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011395      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011396      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011397      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011398      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011399      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011400      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011401      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011402      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011403      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011404      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011405      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011406      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011407      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011408      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011409      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011410      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011411      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011412      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011413      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011414      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011415      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011416      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011417      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011418      0.00000008441        3.49        4.00       3.25
   SRCPARAM L0011419      0.00000008441        3.49        4.00       3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0011420      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011421      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011422      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011423      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011424      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011425      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011426      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011427      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011428      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011429      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011430      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011431      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011432      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011433      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011434      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011435      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011436      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011437      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011438      0.00000008671        3.49        4.00       3.25
   SRCPARAM L0011439      0.00000008671        3.49        4.00       3.25
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   SRCPARAM L0011440     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011441     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011442     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011443     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011444     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011445     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011446     0.00000008671       3.49      4.00      3.25
   SRCPARAM L0011447     0.00000008671       3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0011448     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011449     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011450     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011451     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011452     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011453     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011454     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011455     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011456     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011457     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011458     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011459     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011460     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011461     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011462     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011463     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011464     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011465     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011466     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011467     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011468     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011469     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011470     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011471     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011472     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011473     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011474     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011475     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011476     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011477     0.00000008648       3.49      4.00      3.25
   SRCPARAM L0011478     0.00000008648       3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0011479     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011480     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011481     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011482     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011483     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011484     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011485     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011486     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011487     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011488     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011489     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011490     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011491     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011492     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011493     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011494     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011495     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011496     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011497     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011498     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011499     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011500     0.00000008606       3.49      4.00      3.25
   SRCPARAM L0011501     0.00000008606       3.49      4.00      3.25
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   SRCPARAM L0011502      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011503      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011504      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011505      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011506      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011507      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011508      0.00000008606      3.49      4.00      3.25
   SRCPARAM L0011509      0.00000008606      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0011510      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011511      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011512      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011513      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011514      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011515      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011516      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011517      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011518      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011519      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011520      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011521      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011522      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011523      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011524      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011525      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011526      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011527      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011528      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011529      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011530      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011531      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011532      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011533      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011534      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011535      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011536      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011537      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011538      0.00000006633      3.49      4.00      3.25
   SRCPARAM L0011539      0.00000006633      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0011540      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011541      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011542      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011543      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011544      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011545      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011546      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011547      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011548      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011549      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011550      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011551      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011552      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011553      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011554      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011555      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011556      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011557      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011558      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011559      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011560      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011561      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011562      0.00000008635      3.49      4.00      3.25
   SRCPARAM L0011563      0.00000008635      3.49      4.00      3.25
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   SRCPARAM L0011564      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011565      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011566      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011567      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011568      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011569      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011570      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011571      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011572      0.00000008635        3.49      4.00      3.25
   SRCPARAM L0011573      0.00000008635        3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0011574      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011575      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011576      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011577      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011578      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011579      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011580      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011581      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011582      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011583      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011584      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011585      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011586      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011587      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011588      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011589      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011590      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011591      0.00000004111        3.49      4.00      3.25
   SRCPARAM L0011592      0.00000004111        3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0011593      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011594      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011595      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011596      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011597      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011598      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011599      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011600      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011601      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011602      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011603      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011604      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011605      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011606      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011607      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011608      0.00000003202        3.49      4.00      3.25
   SRCPARAM L0011609      0.00000003202        3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE42
   SRCPARAM L0011610      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011611      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011612      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011613      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011614      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011615      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011616      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011617      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011618      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011619      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011620      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011621      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011622      0.00000005276        3.49      4.00      3.25
   SRCPARAM L0011623      0.00000005276        3.49      4.00      3.25
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   SRCPARAM L0011624      0.00000005276    3.49    4.00     3.25
   SRCPARAM L0011625      0.00000005276    3.49    4.00     3.25
   SRCPARAM L0011626      0.00000005276    3.49    4.00     3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE43
   SRCPARAM L0011627      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011628      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011629      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011630      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011631      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011632      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011633      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011634      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011635      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011636      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011637      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011638      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011639      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011640      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011641      0.00000004023    3.49    4.00     3.25
   SRCPARAM L0011642      0.00000004023    3.49    4.00     3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE44
   SRCPARAM L0011643      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011644      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011645      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011646      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011647      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011648      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011649      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011650      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011651      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011652      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011653      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011654      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011655      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011656      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011657      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011658      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011659      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011660      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011661      0.00000004448    3.49    4.00     3.25
   SRCPARAM L0011662      0.00000004448    3.49    4.00     3.25
** ----------------------------------------------------------------
   SRCPARAM VOL1          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL2          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL3          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL4          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL5          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL6          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL7          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL8          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL9          0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL10         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL11         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL12         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL13         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL14         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL15         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL16         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL17         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL18         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL19         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL20         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL21         0.0000969215     5.000   12.844   1.400
   SRCPARAM VOL22         0.0000969215     5.000   12.844   1.400
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SRCPARAM VOL23        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL24        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL25        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL26        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL27        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL28        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL29        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL30        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL31        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL32        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL33        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL34        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL35        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL36        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL37        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL38        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL39        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL40        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL41        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL42        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL43        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL44        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL45        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL46        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL47        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL48        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL49        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL50        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL51        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL52        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL53        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL54        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL55        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL56        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL57        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL58        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL59        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL60        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL61        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL62        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL63        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL64        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL65        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL66        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL67        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL68        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL69        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL70        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL71        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL72        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL73        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL74        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL75        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL76        0.0000969215    5.000    12.844    1.400
SRCPARAM VOL77        0.0000969215    5.000    12.844    1.400
SRCPARAM STCK1        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK2        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK3        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK4        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK5        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK6        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK7        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK8        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK9        0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM STCK10       0.0045591339    3.550   728.550   54.78     0.13
SRCPARAM VOL78        0.0000969215    5.000    12.844    1.400
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   SRCPARAM STCK11          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK12          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK13          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK14          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK15          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK16          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK17          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK18          0.0045591339     3.550    728.550      54.78       0.13
   SRCPARAM STCK19          0.0045591339     3.550    728.550      54.78       0.13
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Equipment"
** WeekDays:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL4         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT VOL4           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL4           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL5           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL5           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL5           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL5           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL6           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL6           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL6           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL6           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL7           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL7           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL7           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL7           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL8           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL8           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL8           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL8           HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT VOL8          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL9          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL9          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL9          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL9          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL10         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL10         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL10         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL10         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL11         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL11         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL11         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL11         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL12         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL12         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL12         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL12         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL13         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL13         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL13         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL13       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL13       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL13       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL14       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL14       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL14       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL14       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL15       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL15       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL15       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL15       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL16       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL16       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL16       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL16       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL17       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL17       HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL17       HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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     EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL17         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL17         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL17         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL18         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL18         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL18         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL18         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL19         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL19         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL19         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL19         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL20         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL20         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL20         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL20         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL21         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL21         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL21         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL21         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL22         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL22          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL22          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL22          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL22          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL23          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL23          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL23          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL23          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL24          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL24          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL24          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL24          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL25          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL25          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL25          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL25          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL26          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL26          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL26          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT VOL26        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL26        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL26        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL27        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL27        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL28        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL28        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL29        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL29        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL30        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL30        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
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     EMISFACT VOL30          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL31          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL31          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL31          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL31          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL32          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL32          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL32          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL32          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL33          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL33          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL33          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL33          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL34          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL34          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL34          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL34          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
     EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
     EMISFACT VOL35          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
     EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL35          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL35          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL35          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL36          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL36          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL36          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL36          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL37          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL37          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL37          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL37          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL38          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL38          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL38          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL38          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL39          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL39          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL39          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL39         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL39         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL40         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL40         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL40         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL40         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL41         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL41         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL41         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL41         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL42         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL42         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL42         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL42         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL43         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL43         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
      EMISFACT VOL43         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
      EMISFACT VOL43         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
      EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL44         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL44         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL44         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL44         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL45         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL45         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL45         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL45         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL46         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL46         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL46         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL46         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL47         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL47         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL47         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL47         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL48         HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48         HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT VOL48      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL48      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL48      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL48      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL49      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL49      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL49      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL49      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL50      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL50      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL50      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL50      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL51      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL51      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL51      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL51      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL52      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL52      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL52      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL52      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL52        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL53        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL53        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL53        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL53        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL54        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL54        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL54        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL54        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL55        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL55        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL55        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL55        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL56        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL56        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL56        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL56        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL57        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL57        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL57        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL57        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL58        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL58        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL58        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL58        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL59        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL59        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL59        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL59        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL60        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL60        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL60        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL60        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL61        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL61        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL61        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL61        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL62        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL62        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL62        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL62        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL63        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL63        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL63        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL63        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL64        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL64        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL64        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL64        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL65        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL65        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL65        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL65        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL66        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL66      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL66      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL66      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL66      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL67      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL67      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL67      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL67      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL68      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL68      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL68      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL68      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL69      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL69      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL69      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL69      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL70      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL70      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL70      HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL70      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL70      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL70      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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    EMISFACT VOL70        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL70        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL70        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL70        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL70        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL70        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL71        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL71        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL71        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL71        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL72        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL72        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL72        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL72        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL73        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL73        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL73        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL73        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL74        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL74        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
    EMISFACT VOL74        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
    EMISFACT VOL74        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT VOL74        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL75        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL75        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL75        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL75        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL76        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL76        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL76        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL76        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL77        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL77        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL77        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL77        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL78        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL78        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL78        HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL78        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generators"
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT STCK1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK1          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK2          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK3          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK4          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK5          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK7          HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK18        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

```
     EMISFACT STCK19       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
     SRCGROUP ALL
SO FINISHED
**
*****************************************
** AERMOD Receptor Pathway
*****************************************
**
**
RE STARTING
   INCLUDED "14064-15 Ops HRA Unmit.rou"
RE FINISHED
**
*****************************************
** AERMOD Meteorology Pathway
*****************************************
**
**
ME STARTING
   SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
   PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
   SURFDATA 3171 2012
   UAIRDATA 3190 2012
   PROFBASE 245.0 METERS
ME FINISHED
**
*****************************************
** AERMOD Output Pathway
*****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD ALL "14064-15 OPS HRA UNMIT.AD\PE00GALL.PLT" 31
   SUMMFILE "14064-15 Ops HRA Unmit.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of           21 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320    5532        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5533        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5534        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5535        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5536        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5537        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5538        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5539        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5540        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5541        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5543        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5544        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5545        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
 SO W320    5546        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
```

```
SO W320    5547          PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5548          PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5549          PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5550          PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5551          PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
ME W186    7151          MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    7151          MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


     ***********************************
     *** SETUP Finishes Successfully ***
     ***********************************


FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                          ***          11:53:41

                          PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


** Model Options Selected:
       * Model Uses Regulatory DEFAULT Options
       * Model Is Setup For Calculation of Average CONCentration Values.
       * NO GAS DEPOSITION Data Provided.
       * NO PARTICLE DEPOSITION Data Provided.
       * Model Uses NO DRY DEPLETION. DDPLETE  =  F
       * Model Uses NO WET DEPLETION. WETDPLT  =  F
       * Stack-tip Downwash.
       * Model Accounts for ELEVated Terrain Effects.
       * Use Calms Processing Routine.
       * Use Missing Data Processing Routine.
       * No Exponential Decay.
       * Model Uses URBAN Dispersion Algorithm for the SBL for  2325 Source(s),
         for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
       * Urban Roughness Length of 1.0 Meter Used.
       * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
       * CCVR_Sub - Meteorological data includes CCVR substitutions
       * TEMP_Sub - Meteorological data includes TEMP substitutions
       * Model Assumes No FLAGPOLE Receptor Heights.
       * The User Specified a Pollutant Type of: DPM

 **Model Calculates PERIOD Averages Only

 **This Run Includes:   2325 Source(s);       1 Source Group(s); and     258 Receptor(s)

                with:     19 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                  and:   2306 VOLUME source(s)
                  and:      0 AREA type source(s)
                  and:      0 LINE source(s)
                  and:      0 RLINE/RLINEXT source(s)
                  and:      0 OPENPIT source(s)
                  and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                  and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
```

```
                    Model Outputs Tables of PERIOD Averages by Receptor
                    Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
                    Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing
                                                                   Hours


 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   245.00 ;  Decay Coef. =
 0.000     ;  Rot. Angle =      0.0
                 Emission Units = GRAMS/SEC                                   ;  Emission Rate
                 Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3


 **Approximate Storage Requirements of Model =       7.5 MB of RAM.


 **Input Runstream File:
 aermod.inp
 **Output Print File:
 aermod.out

 **Detailed Error/Message File:   14064-15 Ops HRA
 Unmit.err
 **File for Summary of Results:   14064-15 Ops HRA
 Unmit.sum
 🄿🄵 *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                                 ***          11:53:41


                   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*



                                          *** POINT SOURCE DATA ***

                  NUMBER EMISSION RATE                   BASE        STACK     STACK      STACK
                  STACK    BLDG    URBAN  CAP/   EMIS RATE
   SOURCE         PART.  (GRAMS/SEC)    X      Y      ELEV.    HEIGHT    TEMP.     EXIT VEL.
   DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID          CATS.                (METERS) (METERS) (METERS) (METERS) (DEG.K)   (M/SEC)
     (METERS)                         VARY BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - - -

 STCK1           0   0.45591E-02  471144.9 3752388.1   507.9     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK2           0   0.45591E-02  471301.6 3752383.9   512.7     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK3           0   0.45591E-02  471622.8 3752382.9   513.8     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK4           0   0.45591E-02  471805.2 3752371.9   508.9     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK5           0   0.45591E-02  471848.1 3752202.6   519.2     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK6           0   0.45591E-02  471211.8 3752185.0   517.6     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK7           0   0.45591E-02  471149.5 3751819.2   517.9     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK8           0   0.45591E-02  471850.4 3751834.5   537.8     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK9           0   0.45591E-02  471313.0 3751462.9   532.1     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
 STCK10          0   0.45591E-02  471494.1 3751465.2   533.8     3.55     728.55     54.78
 0.13    NO      YES   NO   HRDOW7
```

```
STCK11            0  0.45591E-02  471017.6 3752268.8   506.2    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK12            0  0.45591E-02  470997.9 3752063.9   513.4    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK13            0  0.45591E-02  470933.4 3751828.2   517.4    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK14            0  0.45591E-02  470946.0 3751678.1   516.9    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK15            0  0.45591E-02  471164.9 3751464.8   525.8    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK16            0  0.45591E-02  471639.2 3751478.8   530.0    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK17            0  0.45591E-02  471404.8 3752382.4   509.3    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK18            0  0.45591E-02  471483.4 3752385.2   517.0    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
STCK19            0  0.45591E-02  471954.9 3752378.2   513.3    3.55   728.55    54.78
0.13    NO    YES   NO   HRDOW7
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

```
              NUMBER EMISSION RATE                   BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)    X         Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID        CATS.             (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)              BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0012023          0  0.68070E-05  471219.4 3751821.4   518.3    3.49    4.00     3.25
YES
L0012024          0  0.68070E-05  471228.0 3751821.5   518.9    3.49    4.00     3.25
YES
L0012025          0  0.68070E-05  471236.6 3751821.6   519.6    3.49    4.00     3.25
YES
L0012026          0  0.68070E-05  471245.2 3751821.7   520.2    3.49    4.00     3.25
YES
L0012027          0  0.68070E-05  471253.8 3751821.7   521.1    3.49    4.00     3.25
YES
L0012028          0  0.68070E-05  471262.4 3751821.8   522.3    3.49    4.00     3.25
YES
L0012029          0  0.68070E-05  471271.0 3751821.9   523.4    3.49    4.00     3.25
YES
L0012030          0  0.68070E-05  471279.5 3751822.0   524.6    3.49    4.00     3.25
YES
L0012031          0  0.68070E-05  471288.1 3751822.1   524.5    3.49    4.00     3.25
YES
L0012032          0  0.68070E-05  471296.7 3751822.2   524.3    3.49    4.00     3.25
YES
L0012033          0  0.68070E-05  471305.3 3751822.3   524.1    3.49    4.00     3.25
YES
L0012034          0  0.68070E-05  471313.9 3751822.3   524.0    3.49    4.00     3.25
YES
L0012035          0  0.68070E-05  471322.5 3751822.4   523.9    3.49    4.00     3.25
YES
L0012036          0  0.68070E-05  471331.1 3751822.5   523.9    3.49    4.00     3.25
YES
```

```
L0012037        0   0.68070E-05   471339.7 3751822.6   523.8    3.49    4.00    3.25
   YES
L0012038        0   0.68070E-05   471348.3 3751822.7   523.9    3.49    4.00    3.25
   YES
L0012039        0   0.68070E-05   471356.8 3751822.8   523.9    3.49    4.00    3.25
   YES
L0012040        0   0.68070E-05   471365.4 3751822.9   524.0    3.49    4.00    3.25
   YES
L0012041        0   0.68070E-05   471374.0 3751822.9   524.0    3.49    4.00    3.25
   YES
L0012042        0   0.68070E-05   471382.6 3751823.0   524.1    3.49    4.00    3.25
   YES
L0012043        0   0.68070E-05   471391.2 3751823.1   524.2    3.49    4.00    3.25
   YES
L0012044        0   0.68070E-05   471399.8 3751823.2   524.2    3.49    4.00    3.25
   YES
L0012045        0   0.68070E-05   471408.4 3751823.3   524.7    3.49    4.00    3.25
   YES
L0012046        0   0.68070E-05   471417.0 3751823.4   525.3    3.49    4.00    3.25
   YES
L0012047        0   0.68070E-05   471425.6 3751823.4   525.8    3.49    4.00    3.25
   YES
L0012048        0   0.68070E-05   471434.2 3751823.5   526.3    3.49    4.00    3.25
   YES
L0012049        0   0.68070E-05   471442.7 3751823.6   526.9    3.49    4.00    3.25
   YES
L0012050        0   0.68070E-05   471451.3 3751823.7   527.4    3.49    4.00    3.25
   YES
L0012051        0   0.68070E-05   471459.9 3751823.8   528.0    3.49    4.00    3.25
   YES
L0012052        0   0.68070E-05   471468.5 3751823.9   528.4    3.49    4.00    3.25
   YES
L0012053        0   0.68070E-05   471477.1 3751824.0   528.7    3.49    4.00    3.25
   YES
L0012054        0   0.68070E-05   471485.7 3751824.0   529.1    3.49    4.00    3.25
   YES
L0012055        0   0.68070E-05   471494.3 3751824.1   529.5    3.49    4.00    3.25
   YES
L0012056        0   0.68070E-05   471502.9 3751824.2   530.0    3.49    4.00    3.25
   YES
L0012057        0   0.68070E-05   471511.5 3751824.3   530.5    3.49    4.00    3.25
   YES
L0012058        0   0.68070E-05   471520.0 3751824.4   531.0    3.49    4.00    3.25
   YES
L0012059        0   0.68070E-05   471528.6 3751824.5   531.7    3.49    4.00    3.25
   YES
L0012060        0   0.68070E-05   471537.2 3751824.5   532.3    3.49    4.00    3.25
   YES
L0012061        0   0.68070E-05   471545.8 3751824.6   533.0    3.49    4.00    3.25
   YES
L0012062        0   0.68070E-05   471554.4 3751824.7   533.5    3.49    4.00    3.25
   YES
```

                    PAGE   4
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ

SOURCE ID (METERS)	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0012063	0	0.68070E-05	471563.0	3751824.8	533.8	3.49	4.00	3.25
YES							
L0012064	0	0.68070E-05	471571.6	3751824.9	534.2	3.49	4.00	3.25
YES							
L0012065	0	0.68070E-05	471580.2	3751825.0	534.6	3.49	4.00	3.25
YES							
L0012066	0	0.68070E-05	471588.8	3751825.1	534.8	3.49	4.00	3.25
YES							
L0012067	0	0.68070E-05	471597.4	3751825.1	535.0	3.49	4.00	3.25
YES							
L0012068	0	0.68070E-05	471605.9	3751825.2	535.2	3.49	4.00	3.25
YES							
L0012069	0	0.68070E-05	471614.5	3751825.3	535.4	3.49	4.00	3.25
YES							
L0012070	0	0.68070E-05	471623.1	3751825.4	535.6	3.49	4.00	3.25
YES							
L0012071	0	0.68070E-05	471631.7	3751825.5	535.8	3.49	4.00	3.25
YES							
L0012072	0	0.68070E-05	471640.3	3751825.6	536.0	3.49	4.00	3.25
YES							
L0012073	0	0.68070E-05	471648.9	3751825.7	536.0	3.49	4.00	3.25
YES							
L0012074	0	0.68070E-05	471657.5	3751825.7	536.0	3.49	4.00	3.25
YES							
L0012075	0	0.68070E-05	471666.1	3751825.8	536.0	3.49	4.00	3.25
YES							
L0012076	0	0.68070E-05	471674.7	3751825.9	536.0	3.49	4.00	3.25
YES							
L0012077	0	0.68070E-05	471683.2	3751826.0	536.0	3.49	4.00	3.25
YES							
L0012078	0	0.68070E-05	471691.8	3751826.1	536.0	3.49	4.00	3.25
YES							
L0012079	0	0.68070E-05	471700.4	3751826.2	536.0	3.49	4.00	3.25
YES							
L0012080	0	0.68070E-05	471709.0	3751826.2	536.0	3.49	4.00	3.25
YES							
L0012081	0	0.68070E-05	471717.6	3751826.3	536.0	3.49	4.00	3.25
YES							
L0012082	0	0.17461E-04	471731.6	3751806.5	536.1	3.49	4.00	3.25
YES							
L0012083	0	0.17461E-04	471731.7	3751797.9	536.1	3.49	4.00	3.25
YES							
L0012084	0	0.17461E-04	471731.8	3751789.3	536.1	3.49	4.00	3.25
YES							
L0012085	0	0.17461E-04	471731.9	3751780.7	536.1	3.49	4.00	3.25
YES							
L0012086	0	0.17461E-04	471732.0	3751772.1	536.0	3.49	4.00	3.25
YES							
L0012087	0	0.17461E-04	471732.1	3751763.6	536.0	3.49	4.00	3.25
YES							
L0012088	0	0.17461E-04	471732.2	3751755.0	535.9	3.49	4.00	3.25
YES							
L0012089	0	0.17461E-04	471732.3	3751746.4	535.7	3.49	4.00	3.25
YES							
L0012090	0	0.17461E-04	471732.4	3751737.8	535.4	3.49	4.00	3.25
YES							
L0012091	0	0.17461E-04	471732.5	3751729.2	535.2	3.49	4.00	3.25
YES							
L0012092	0	0.17461E-04	471732.6	3751720.6	535.1	3.49	4.00	3.25
YES							

```
L0012093        0   0.17461E-04   471732.7 3751712.0   535.1     3.49     4.00     3.25
YES
L0012094        0   0.17461E-04   471732.9 3751703.4   535.1     3.49     4.00     3.25
YES
L0012095        0   0.17461E-04   471733.0 3751694.8   535.1     3.49     4.00     3.25
YES
L0012096        0   0.17461E-04   471733.1 3751686.3   535.1     3.49     4.00     3.25
YES
L0012097        0   0.17461E-04   471733.2 3751677.7   535.1     3.49     4.00     3.25
YES
L0012098        0   0.17461E-04   471733.3 3751669.1   535.1     3.49     4.00     3.25
YES
L0012099        0   0.17461E-04   471733.4 3751660.5   534.9     3.49     4.00     3.25
YES
L0012100        0   0.17461E-04   471733.5 3751651.9   534.6     3.49     4.00     3.25
YES
L0012101        0   0.17461E-04   471733.6 3751643.3   534.4     3.49     4.00     3.25
YES
L0012102        0   0.17461E-04   471733.7 3751634.7   534.1     3.49     4.00     3.25
YES
```

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                        *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
             URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - -

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L0012103        0   0.17461E-04   471733.8 3751626.1   534.1     3.49     4.00     3.25
YES
L0012104        0   0.17461E-04   471733.9 3751617.5   534.1     3.49     4.00     3.25
YES
L0012105        0   0.68070E-05   471222.2 3751597.4   526.5     3.49     4.00     3.25
YES
L0012106        0   0.68070E-05   471230.7 3751597.4   527.3     3.49     4.00     3.25
YES
L0012107        0   0.68070E-05   471239.3 3751597.4   528.1     3.49     4.00     3.25
YES
L0012108        0   0.68070E-05   471247.9 3751597.5   528.8     3.49     4.00     3.25
YES
L0012109        0   0.68070E-05   471256.5 3751597.5   529.2     3.49     4.00     3.25
YES
L0012110        0   0.68070E-05   471265.1 3751597.5   529.5     3.49     4.00     3.25
YES
L0012111        0   0.68070E-05   471273.7 3751597.6   529.8     3.49     4.00     3.25
YES
L0012112        0   0.68070E-05   471282.3 3751597.6   530.2     3.49     4.00     3.25
YES
L0012113        0   0.68070E-05   471290.9 3751597.6   530.9     3.49     4.00     3.25
YES
L0012114        0   0.68070E-05   471299.5 3751597.7   531.6     3.49     4.00     3.25
YES
L0012115        0   0.68070E-05   471308.1 3751597.7   532.3     3.49     4.00     3.25
YES
```

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L0012116          0    0.68070E-05    471316.6 3751597.7    533.4    3.49    4.00    3.25
  YES
L0012117          0    0.68070E-05    471325.2 3751597.8    534.6    3.49    4.00    3.25
  YES
L0012118          0    0.68070E-05    471333.8 3751597.8    535.9    3.49    4.00    3.25
  YES
L0012119          0    0.68070E-05    471342.4 3751597.8    536.7    3.49    4.00    3.25
  YES
L0012120          0    0.68070E-05    471351.0 3751597.9    536.8    3.49    4.00    3.25
  YES
L0012121          0    0.68070E-05    471359.6 3751597.9    536.9    3.49    4.00    3.25
  YES
L0012122          0    0.68070E-05    471368.2 3751597.9    537.0    3.49    4.00    3.25
  YES
L0012123          0    0.68070E-05    471376.8 3751598.0    536.6    3.49    4.00    3.25
  YES
L0012124          0    0.68070E-05    471385.4 3751598.0    536.1    3.49    4.00    3.25
  YES
L0012125          0    0.68070E-05    471394.0 3751598.0    535.6    3.49    4.00    3.25
  YES
L0012126          0    0.68070E-05    471402.5 3751598.1    535.1    3.49    4.00    3.25
  YES
L0012127          0    0.68070E-05    471411.1 3751598.1    534.5    3.49    4.00    3.25
  YES
L0012128          0    0.68070E-05    471419.7 3751598.1    533.9    3.49    4.00    3.25
  YES
L0012129          0    0.68070E-05    471428.3 3751598.1    533.4    3.49    4.00    3.25
  YES
L0012130          0    0.68070E-05    471436.9 3751598.2    533.0    3.49    4.00    3.25
  YES
L0012131          0    0.68070E-05    471445.5 3751598.2    532.8    3.49    4.00    3.25
  YES
L0012132          0    0.68070E-05    471454.1 3751598.2    532.5    3.49    4.00    3.25
  YES
L0012133          0    0.68070E-05    471462.7 3751598.3    532.1    3.49    4.00    3.25
  YES
L0012134          0    0.68070E-05    471471.3 3751598.3    531.5    3.49    4.00    3.25
  YES
L0012135          0    0.68070E-05    471479.9 3751598.3    530.9    3.49    4.00    3.25
  YES
L0012136          0    0.68070E-05    471488.4 3751598.4    530.3    3.49    4.00    3.25
  YES
L0012137          0    0.68070E-05    471497.0 3751598.4    530.3    3.49    4.00    3.25
  YES
L0012138          0    0.68070E-05    471505.6 3751598.4    530.3    3.49    4.00    3.25
  YES
L0012139          0    0.68070E-05    471514.2 3751598.5    530.3    3.49    4.00    3.25
  YES
L0012140          0    0.68070E-05    471522.8 3751598.5    530.2    3.49    4.00    3.25
  YES
L0012141          0    0.68070E-05    471531.4 3751598.5    529.9    3.49    4.00    3.25
  YES
L0012142          0    0.68070E-05    471540.0 3751598.6    529.6    3.49    4.00    3.25
  YES
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

          NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.

SOURCE ID	SOURCE SCALAR (METERS)	URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC) BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ 	VARY
L0012143		0	0.68070E-05	471548.6	3751598.6	529.3	3.49	4.00	3.25	YES
L0012144		0	0.68070E-05	471557.2	3751598.6	529.3	3.49	4.00	3.25	YES
L0012145		0	0.68070E-05	471565.8	3751598.7	529.3	3.49	4.00	3.25	YES
L0012146		0	0.68070E-05	471574.3	3751598.7	529.3	3.49	4.00	3.25	YES
L0012147		0	0.68070E-05	471582.9	3751598.7	529.3	3.49	4.00	3.25	YES
L0012148		0	0.68070E-05	471591.5	3751598.8	529.4	3.49	4.00	3.25	YES
L0012149		0	0.68070E-05	471600.1	3751598.8	529.6	3.49	4.00	3.25	YES
L0012150		0	0.68070E-05	471608.7	3751598.8	529.7	3.49	4.00	3.25	YES
L0012151		0	0.68070E-05	471617.3	3751598.9	529.7	3.49	4.00	3.25	YES
L0012152		0	0.68070E-05	471625.9	3751598.9	529.7	3.49	4.00	3.25	YES
L0012153		0	0.68070E-05	471634.5	3751598.9	529.7	3.49	4.00	3.25	YES
L0012154		0	0.68070E-05	471643.1	3751599.0	529.8	3.49	4.00	3.25	YES
L0012155		0	0.68070E-05	471651.6	3751599.0	530.0	3.49	4.00	3.25	YES
L0012156		0	0.68070E-05	471660.2	3751599.0	530.3	3.49	4.00	3.25	YES
L0012157		0	0.68070E-05	471668.8	3751599.1	530.5	3.49	4.00	3.25	YES
L0012158		0	0.68070E-05	471677.4	3751599.1	530.8	3.49	4.00	3.25	YES
L0012159		0	0.68070E-05	471686.0	3751599.1	531.2	3.49	4.00	3.25	YES
L0012160		0	0.68070E-05	471694.6	3751599.1	531.5	3.49	4.00	3.25	YES
L0012161		0	0.68070E-05	471703.2	3751599.2	532.0	3.49	4.00	3.25	YES
L0012162		0	0.68070E-05	471711.8	3751599.2	532.6	3.49	4.00	3.25	YES
L0012163		0	0.68070E-05	471720.4	3751599.2	533.1	3.49	4.00	3.25	YES
L0012164		0	0.94190E-05	471255.4	3752185.4	518.7	3.49	4.00	3.25	YES
L0012165		0	0.94190E-05	471264.0	3752185.5	518.7	3.49	4.00	3.25	YES
L0012166		0	0.94190E-05	471272.6	3752185.6	518.7	3.49	4.00	3.25	YES
L0012167		0	0.94190E-05	471281.2	3752185.7	518.8	3.49	4.00	3.25	YES
L0012168		0	0.94190E-05	471289.8	3752185.8	519.3	3.49	4.00	3.25	YES
L0012169		0	0.94190E-05	471298.4	3752185.9	519.8	3.49	4.00	3.25	YES
L0012170		0	0.94190E-05	471307.0	3752186.0	520.2	3.49	4.00	3.25	YES
L0012171		0	0.94190E-05	471315.6	3752186.1	520.7	3.49	4.00	3.25	YES

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L0012172          0    0.94190E-05   471324.2 3752186.2   521.2     3.49     4.00     3.25
  YES
L0012173          0    0.94190E-05   471332.7 3752186.2   521.7     3.49     4.00     3.25
  YES
L0012174          0    0.94190E-05   471341.3 3752186.3   522.1     3.49     4.00     3.25
  YES
L0012175          0    0.94190E-05   471349.9 3752186.4   522.5     3.49     4.00     3.25
  YES
L0012176          0    0.94190E-05   471358.5 3752186.5   522.8     3.49     4.00     3.25
  YES
L0012177          0    0.94190E-05   471367.1 3752186.6   523.2     3.49     4.00     3.25
  YES
L0012178          0    0.94190E-05   471375.7 3752186.7   523.5     3.49     4.00     3.25
  YES
L0012179          0    0.94190E-05   471384.3 3752186.8   523.8     3.49     4.00     3.25
  YES
L0012180          0    0.94190E-05   471392.9 3752186.9   524.1     3.49     4.00     3.25
  YES
L0012181          0    0.94190E-05   471401.5 3752187.0   524.4     3.49     4.00     3.25
  YES
L0012182          0    0.94190E-05   471410.1 3752187.0   525.0     3.49     4.00     3.25
  YES
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🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

```
           NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
           URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID     CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0012183          0    0.94190E-05   471418.6 3752187.1   525.6     3.49     4.00     3.25
  YES
L0012184          0    0.94190E-05   471427.2 3752187.2   526.1     3.49     4.00     3.25
  YES
L0012185          0    0.94190E-05   471435.8 3752187.3   526.6     3.49     4.00     3.25
  YES
L0012186          0    0.94190E-05   471444.4 3752187.4   527.1     3.49     4.00     3.25
  YES
L0012187          0    0.94190E-05   471453.0 3752187.5   527.6     3.49     4.00     3.25
  YES
L0012188          0    0.94190E-05   471461.6 3752187.6   527.9     3.49     4.00     3.25
  YES
L0012189          0    0.94190E-05   471470.2 3752187.7   528.0     3.49     4.00     3.25
  YES
L0012190          0    0.94190E-05   471478.8 3752187.8   528.0     3.49     4.00     3.25
  YES
L0012191          0    0.94190E-05   471487.4 3752187.8   528.1     3.49     4.00     3.25
  YES
L0012192          0    0.94190E-05   471495.9 3752187.9   528.2     3.49     4.00     3.25
  YES
L0012193          0    0.94190E-05   471504.5 3752188.0   528.3     3.49     4.00     3.25
  YES
L0012194          0    0.94190E-05   471513.1 3752188.1   528.4     3.49     4.00     3.25
  YES
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L0012195           0   0.94190E-05   471521.7 3752188.2   528.4     3.49     4.00     3.25
  YES
L0012196           0   0.94190E-05   471530.3 3752188.3   528.0     3.49     4.00     3.25
  YES
L0012197           0   0.94190E-05   471538.9 3752188.4   527.6     3.49     4.00     3.25
  YES
L0012198           0   0.94190E-05   471547.5 3752188.5   527.3     3.49     4.00     3.25
  YES
L0012199           0   0.94190E-05   471556.1 3752188.6   526.8     3.49     4.00     3.25
  YES
L0012200           0   0.94190E-05   471564.7 3752188.6   526.2     3.49     4.00     3.25
  YES
L0012201           0   0.94190E-05   471573.3 3752188.7   525.6     3.49     4.00     3.25
  YES
L0012202           0   0.94190E-05   471581.8 3752188.8   525.3     3.49     4.00     3.25
  YES
L0012203           0   0.94190E-05   471590.4 3752188.9   525.5     3.49     4.00     3.25
  YES
L0012204           0   0.94190E-05   471599.0 3752189.0   525.8     3.49     4.00     3.25
  YES
L0012205           0   0.94190E-05   471607.6 3752189.1   526.1     3.49     4.00     3.25
  YES
L0012206           0   0.94190E-05   471616.2 3752189.2   526.3     3.49     4.00     3.25
  YES
L0012207           0   0.94190E-05   471624.8 3752189.3   526.4     3.49     4.00     3.25
  YES
L0012208           0   0.94190E-05   471633.4 3752189.4   526.5     3.49     4.00     3.25
  YES
L0012209           0   0.94190E-05   471642.0 3752189.4   526.6     3.49     4.00     3.25
  YES
L0012210           0   0.94190E-05   471650.6 3752189.5   526.6     3.49     4.00     3.25
  YES
L0012211           0   0.94190E-05   471659.1 3752189.6   526.6     3.49     4.00     3.25
  YES
L0012212           0   0.94190E-05   471667.7 3752189.7   526.6     3.49     4.00     3.25
  YES
L0012213           0   0.94190E-05   471676.3 3752189.8   526.4     3.49     4.00     3.25
  YES
L0012214           0   0.94190E-05   471684.9 3752189.9   526.3     3.49     4.00     3.25
  YES
L0012215           0   0.94190E-05   471693.5 3752190.0   526.1     3.49     4.00     3.25
  YES
L0012216           0   0.94190E-05   471702.1 3752190.1   525.8     3.49     4.00     3.25
  YES
L0012217           0   0.94190E-05   471710.7 3752190.2   525.3     3.49     4.00     3.25
  YES
L0012218           0   0.94190E-05   471256.8 3751969.0   522.4     3.49     4.00     3.25
  YES
L0012219           0   0.94190E-05   471265.3 3751969.2   521.9     3.49     4.00     3.25
  YES
L0012220           0   0.94190E-05   471273.9 3751969.3   521.4     3.49     4.00     3.25
  YES
L0012221           0   0.94190E-05   471282.5 3751969.4   521.2     3.49     4.00     3.25
  YES
L0012222           0   0.94190E-05   471291.1 3751969.5   521.5     3.49     4.00     3.25
  YES
```

 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0012223 YES	0	0.94190E-05	471299.7	3751969.6	521.8	3.49	4.00	3.25
L0012224 YES	0	0.94190E-05	471308.3	3751969.7	522.1	3.49	4.00	3.25
L0012225 YES	0	0.94190E-05	471316.9	3751969.8	522.3	3.49	4.00	3.25
L0012226 YES	0	0.94190E-05	471325.5	3751969.9	522.6	3.49	4.00	3.25
L0012227 YES	0	0.94190E-05	471334.1	3751970.0	522.9	3.49	4.00	3.25
L0012228 YES	0	0.94190E-05	471342.7	3751970.1	523.2	3.49	4.00	3.25
L0012229 YES	0	0.94190E-05	471351.2	3751970.2	523.5	3.49	4.00	3.25
L0012230 YES	0	0.94190E-05	471359.8	3751970.3	523.9	3.49	4.00	3.25
L0012231 YES	0	0.94190E-05	471368.4	3751970.4	524.2	3.49	4.00	3.25
L0012232 YES	0	0.94190E-05	471377.0	3751970.5	525.0	3.49	4.00	3.25
L0012233 YES	0	0.94190E-05	471385.6	3751970.6	525.9	3.49	4.00	3.25
L0012234 YES	0	0.94190E-05	471394.2	3751970.7	526.7	3.49	4.00	3.25
L0012235 YES	0	0.94190E-05	471402.8	3751970.8	527.4	3.49	4.00	3.25
L0012236 YES	0	0.94190E-05	471411.4	3751970.9	527.7	3.49	4.00	3.25
L0012237 YES	0	0.94190E-05	471420.0	3751971.0	528.0	3.49	4.00	3.25
L0012238 YES	0	0.94190E-05	471428.5	3751971.2	528.3	3.49	4.00	3.25
L0012239 YES	0	0.94190E-05	471437.1	3751971.3	528.7	3.49	4.00	3.25
L0012240 YES	0	0.94190E-05	471445.7	3751971.4	529.2	3.49	4.00	3.25
L0012241 YES	0	0.94190E-05	471454.3	3751971.5	529.7	3.49	4.00	3.25
L0012242 YES	0	0.94190E-05	471462.9	3751971.6	530.1	3.49	4.00	3.25
L0012243 YES	0	0.94190E-05	471471.5	3751971.7	530.3	3.49	4.00	3.25
L0012244 YES	0	0.94190E-05	471480.1	3751971.8	530.6	3.49	4.00	3.25
L0012245 YES	0	0.94190E-05	471488.7	3751971.9	530.8	3.49	4.00	3.25
L0012246 YES	0	0.94190E-05	471497.3	3751972.0	531.0	3.49	4.00	3.25
L0012247 YES	0	0.94190E-05	471505.9	3751972.1	531.3	3.49	4.00	3.25
L0012248 YES	0	0.94190E-05	471514.4	3751972.2	531.5	3.49	4.00	3.25
L0012249 YES	0	0.94190E-05	471523.0	3751972.3	531.9	3.49	4.00	3.25
L0012250 YES	0	0.94190E-05	471531.6	3751972.4	532.6	3.49	4.00	3.25

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L0012251          0   0.94190E-05   471540.2 3751972.5   533.2     3.49      4.00      3.25
   YES
L0012252          0   0.94190E-05   471548.8 3751972.6   533.9     3.49      4.00      3.25
   YES
L0012253          0   0.94190E-05   471557.4 3751972.7   534.5     3.49      4.00      3.25
   YES
L0012254          0   0.94190E-05   471566.0 3751972.8   535.1     3.49      4.00      3.25
   YES
L0012255          0   0.94190E-05   471574.6 3751972.9   535.7     3.49      4.00      3.25
   YES
L0012256          0   0.94190E-05   471583.2 3751973.0   536.0     3.49      4.00      3.25
   YES
L0012257          0   0.94190E-05   471591.7 3751973.1   536.0     3.49      4.00      3.25
   YES
L0012258          0   0.94190E-05   471600.3 3751973.3   536.0     3.49      4.00      3.25
   YES
L0012259          0   0.94190E-05   471608.9 3751973.4   536.0     3.49      4.00      3.25
   YES
L0012260          0   0.94190E-05   471617.5 3751973.5   535.7     3.49      4.00      3.25
   YES
L0012261          0   0.94190E-05   471626.1 3751973.6   535.4     3.49      4.00      3.25
   YES
L0012262          0   0.94190E-05   471634.7 3751973.7   535.2     3.49      4.00      3.25
   YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE SCALAR CATS. (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

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L0012263          0   0.94190E-05   471643.3 3751973.8   534.8     3.49      4.00      3.25
   YES
L0012264          0   0.94190E-05   471651.9 3751973.9   534.2     3.49      4.00      3.25
   YES
L0012265          0   0.94190E-05   471660.5 3751974.0   533.6     3.49      4.00      3.25
   YES
L0012266          0   0.94190E-05   471669.0 3751974.1   533.0     3.49      4.00      3.25
   YES
L0012267          0   0.94190E-05   471677.6 3751974.2   532.7     3.49      4.00      3.25
   YES
L0012268          0   0.94190E-05   471686.2 3751974.3   532.4     3.49      4.00      3.25
   YES
L0012269          0   0.94190E-05   471694.8 3751974.4   532.2     3.49      4.00      3.25
   YES
L0012270          0   0.94190E-05   471703.4 3751974.5   531.8     3.49      4.00      3.25
   YES
L0012271          0   0.94190E-05   471712.0 3751974.6   531.5     3.49      4.00      3.25
   YES
L0012272          0   0.11933E-04   471845.0 3752163.1   522.1     3.49      4.00      3.25
   YES
L0012273          0   0.11933E-04   471845.1 3752154.5   522.9     3.49      4.00      3.25
   YES
```

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L0012274        0   0.11933E-04  471845.2 3752145.9   523.8     3.49     4.00     3.25
   YES
L0012275        0   0.11933E-04  471845.2 3752137.3   524.4     3.49     4.00     3.25
   YES
L0012276        0   0.11933E-04  471845.3 3752128.7   525.0     3.49     4.00     3.25
   YES
L0012277        0   0.11933E-04  471845.4 3752120.1   525.6     3.49     4.00     3.25
   YES
L0012278        0   0.11933E-04  471845.5 3752111.5   526.2     3.49     4.00     3.25
   YES
L0012279        0   0.11933E-04  471845.6 3752103.0   526.7     3.49     4.00     3.25
   YES
L0012280        0   0.11933E-04  471845.6 3752094.4   527.3     3.49     4.00     3.25
   YES
L0012281        0   0.11933E-04  471845.7 3752085.8   527.8     3.49     4.00     3.25
   YES
L0012282        0   0.11933E-04  471845.8 3752077.2   528.3     3.49     4.00     3.25
   YES
L0012283        0   0.11933E-04  471845.9 3752068.6   528.9     3.49     4.00     3.25
   YES
L0012284        0   0.11933E-04  471846.0 3752060.0   529.4     3.49     4.00     3.25
   YES
L0012285        0   0.11933E-04  471846.0 3752051.4   530.0     3.49     4.00     3.25
   YES
L0012286        0   0.11933E-04  471846.1 3752042.8   530.5     3.49     4.00     3.25
   YES
L0012287        0   0.11933E-04  471846.2 3752034.2   531.1     3.49     4.00     3.25
   YES
L0012288        0   0.11933E-04  471846.3 3752025.7   531.7     3.49     4.00     3.25
   YES
L0012289        0   0.11933E-04  471846.4 3752017.1   532.5     3.49     4.00     3.25
   YES
L0012290        0   0.11933E-04  471846.5 3752008.5   533.3     3.49     4.00     3.25
   YES
L0012291        0   0.11933E-04  471846.5 3751999.9   534.2     3.49     4.00     3.25
   YES
L0012292        0   0.11933E-04  471846.6 3751991.3   534.7     3.49     4.00     3.25
   YES
L0011933        0   0.56830E-06  471848.4 3751803.7   539.0     3.49     4.00     3.25
   YES
L0011934        0   0.56830E-06  471848.4 3751795.1   539.0     3.49     4.00     3.25
   YES
L0011935        0   0.56830E-06  471848.5 3751786.5   539.0     3.49     4.00     3.25
   YES
L0011936        0   0.56830E-06  471848.6 3751778.0   539.0     3.49     4.00     3.25
   YES
L0011937        0   0.56830E-06  471848.6 3751769.4   539.0     3.49     4.00     3.25
   YES
L0011938        0   0.56830E-06  471848.7 3751760.8   539.0     3.49     4.00     3.25
   YES
L0011939        0   0.56830E-06  471848.8 3751752.2   539.0     3.49     4.00     3.25
   YES
L0011940        0   0.56830E-06  471848.8 3751743.6   539.0     3.49     4.00     3.25
   YES
L0011941        0   0.56830E-06  471848.9 3751735.0   539.0     3.49     4.00     3.25
   YES
L0011942        0   0.56830E-06  471849.0 3751726.4   539.0     3.49     4.00     3.25
   YES
```

 ▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                       *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
       URBAN EMISSION RATE
  SOURCE  PART.  (GRAMS/SEC)     X         Y        ELEV.    HEIGHT      SY        SZ
  SOURCE SCALAR VARY
    ID    CATS.                (METERS) (METERS)  (METERS)  (METERS)  (METERS)
   (METERS)           BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0011943       0   0.56830E-06  471849.0 3751717.8   539.0     3.49      4.00      3.25
YES
L0011944       0   0.56830E-06  471849.1 3751709.2   539.0     3.49      4.00      3.25
YES
L0011945       0   0.56830E-06  471849.1 3751700.6   539.0     3.49      4.00      3.25
YES
L0011946       0   0.48610E-06  471495.3 3751414.3   533.3     3.49      4.00      3.25
YES
L0011947       0   0.48610E-06  471495.4 3751405.7   533.0     3.49      4.00      3.25
YES
L0011948       0   0.48610E-06  471495.5 3751397.2   532.8     3.49      4.00      3.25
YES
L0011949       0   0.48610E-06  471495.5 3751388.6   532.3     3.49      4.00      3.25
YES
L0011950       0   0.48610E-06  471495.6 3751380.0   531.7     3.49      4.00      3.25
YES
L0011951       0   0.48610E-06  471495.7 3751371.4   531.1     3.49      4.00      3.25
YES
L0011952       0   0.48610E-06  471495.8 3751362.8   530.7     3.49      4.00      3.25
YES
L0011953       0   0.48610E-06  471495.9 3751354.2   530.4     3.49      4.00      3.25
YES
L0011954       0   0.48610E-06  471496.0 3751345.6   530.1     3.49      4.00      3.25
YES
L0011955       0   0.48610E-06  471496.1 3751337.0   529.8     3.49      4.00      3.25
YES
L0011956       0   0.48610E-06  471496.2 3751328.4   529.3     3.49      4.00      3.25
YES
L0011957       0   0.48610E-06  471496.3 3751319.8   528.9     3.49      4.00      3.25
YES
L0011958       0   0.48610E-06  471496.4 3751311.3   528.5     3.49      4.00      3.25
YES
L0011959       0   0.48610E-06  471496.4 3751302.7   528.2     3.49      4.00      3.25
YES
L0011960       0   0.48610E-06  471496.5 3751294.1   528.2     3.49      4.00      3.25
YES
L0011961       0   0.48610E-06  471496.6 3751285.5   528.2     3.49      4.00      3.25
YES
L0011962       0   0.48610E-06  471496.7 3751276.9   528.2     3.49      4.00      3.25
YES
L0011963       0   0.48610E-06  471496.8 3751268.3   528.0     3.49      4.00      3.25
YES
L0011964       0   0.48610E-06  471496.9 3751259.7   527.7     3.49      4.00      3.25
YES
L0011965       0   0.48610E-06  471394.9 3751414.3   536.7     3.49      4.00      3.25
YES
L0011966       0   0.48610E-06  471395.0 3751405.7   536.5     3.49      4.00      3.25
YES
L0011967       0   0.48610E-06  471395.1 3751397.2   536.2     3.49      4.00      3.25
YES
L0011968       0   0.48610E-06  471395.2 3751388.6   535.6     3.49      4.00      3.25
YES
L0011969       0   0.48610E-06  471395.2 3751380.0   534.9     3.49      4.00      3.25
YES
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L0011970          0   0.48610E-06  471395.3 3751371.4   534.3     3.49      4.00     3.25
  YES
L0011971          0   0.48610E-06  471395.4 3751362.8   533.5     3.49      4.00     3.25
  YES
L0011972          0   0.48610E-06  471395.5 3751354.2   532.3     3.49      4.00     3.25
  YES
L0011973          0   0.48610E-06  471395.6 3751345.6   531.2     3.49      4.00     3.25
  YES
L0011974          0   0.48610E-06  471395.7 3751337.0   530.0     3.49      4.00     3.25
  YES
L0011975          0   0.48610E-06  471395.8 3751328.4   529.4     3.49      4.00     3.25
  YES
L0011976          0   0.48610E-06  471395.9 3751319.8   528.9     3.49      4.00     3.25
  YES
L0011977          0   0.48610E-06  471396.0 3751311.3   528.3     3.49      4.00     3.25
  YES
L0011978          0   0.48610E-06  471396.0 3751302.7   527.7     3.49      4.00     3.25
  YES
L0011979          0   0.48610E-06  471396.1 3751294.1   527.2     3.49      4.00     3.25
  YES
L0011980          0   0.48610E-06  471396.2 3751285.5   526.6     3.49      4.00     3.25
  YES
L0011981          0   0.48610E-06  471396.3 3751276.9   526.0     3.49      4.00     3.25
  YES
L0011982          0   0.48610E-06  471396.4 3751268.3   525.5     3.49      4.00     3.25
  YES
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🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS. SCALAR VARY BY	EMISSION RATE EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0011983	0	0.48610E-06	471396.5	3751259.7	524.9	3.49	4.00	3.25
YES								
L0011984	0	0.71040E-06	471160.4	3752325.6	513.0	3.49	4.00	3.25
YES								
L0011985	0	0.71040E-06	471169.0	3752325.7	513.0	3.49	4.00	3.25
YES								
L0011986	0	0.71040E-06	471177.6	3752325.9	513.0	3.49	4.00	3.25
YES								
L0011987	0	0.71040E-06	471186.1	3752326.0	513.0	3.49	4.00	3.25
YES								
L0011988	0	0.71040E-06	471194.7	3752326.1	513.0	3.49	4.00	3.25
YES								
L0011989	0	0.71040E-06	471203.3	3752326.3	513.0	3.49	4.00	3.25
YES								
L0011990	0	0.71040E-06	471211.9	3752326.4	513.0	3.49	4.00	3.25
YES								
L0011991	0	0.71040E-06	471220.5	3752326.5	513.0	3.49	4.00	3.25
YES								
L0011992	0	0.71040E-06	471229.1	3752326.7	512.7	3.49	4.00	3.25
YES								

| L0011993 | 0 | 0.71040E-06 | 471237.7 | 3752326.8 | 512.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0011994 | 0 | 0.71040E-06 | 471246.3 | 3752326.9 | 512.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0011995 | 0 | 0.71040E-06 | 471254.9 | 3752327.1 | 512.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0011996 | 0 | 0.71040E-06 | 471263.5 | 3752327.2 | 512.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009769 | 0 | 0.71040E-06 | 471397.4 | 3752327.3 | 512.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009770 | 0 | 0.71040E-06 | 471406.0 | 3752327.4 | 512.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009771 | 0 | 0.71040E-06 | 471414.6 | 3752327.6 | 512.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009772 | 0 | 0.71040E-06 | 471423.2 | 3752327.7 | 512.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009773 | 0 | 0.71040E-06 | 471431.8 | 3752327.8 | 513.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009774 | 0 | 0.71040E-06 | 471440.4 | 3752328.0 | 514.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009775 | 0 | 0.71040E-06 | 471449.0 | 3752328.1 | 516.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009776 | 0 | 0.71040E-06 | 471457.6 | 3752328.2 | 517.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009777 | 0 | 0.71040E-06 | 471466.2 | 3752328.4 | 518.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009778 | 0 | 0.71040E-06 | 471474.7 | 3752328.5 | 518.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009779 | 0 | 0.71040E-06 | 471483.3 | 3752328.6 | 519.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009780 | 0 | 0.71040E-06 | 471491.9 | 3752328.7 | 519.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0009781 | 0 | 0.71040E-06 | 471500.5 | 3752328.9 | 519.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012293 | 0 | 0.96380E-05 | 472046.0 | 3751992.4 | 524.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012294 | 0 | 0.96380E-05 | 472045.9 | 3752001.0 | 524.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012295 | 0 | 0.96380E-05 | 472045.8 | 3752009.6 | 524.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012296 | 0 | 0.96380E-05 | 472045.8 | 3752018.2 | 525.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012297 | 0 | 0.96380E-05 | 472045.7 | 3752026.7 | 525.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012298 | 0 | 0.96380E-05 | 472045.6 | 3752035.3 | 525.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012299 | 0 | 0.96380E-05 | 472045.5 | 3752043.9 | 525.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012300 | 0 | 0.96380E-05 | 472045.5 | 3752052.5 | 525.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012301 | 0 | 0.96380E-05 | 472045.4 | 3752061.1 | 525.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012302 | 0 | 0.96380E-05 | 472045.3 | 3752069.7 | 525.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012303 | 0 | 0.96380E-05 | 472045.3 | 3752078.3 | 525.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012304 | 0 | 0.96380E-05 | 472045.2 | 3752086.9 | 526.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0012305 | 0 | 0.96380E-05 | 472045.1 | 3752095.5 | 525.8 | 3.49 | 4.00 | 3.25 |
| YES |

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** VOLUME SOURCE DATA ***

                 NUMBER EMISSION RATE                 BASE    RELEASE    INIT.    INIT.
            URBAN EMISSION RATE
   SOURCE    PART.  (GRAMS/SEC)    X         Y       ELEV.   HEIGHT     SY       SZ
   SOURCE  SCALAR VARY
     ID     CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - -

L0012306        0  0.96380E-05  472045.0 3752104.1   525.7    3.49     4.00     3.25
YES
L0012307        0  0.96380E-05  472045.0 3752112.6   525.5    3.49     4.00     3.25
YES
L0012308        0  0.96380E-05  472044.9 3752121.2   525.3    3.49     4.00     3.25
YES
L0012309        0  0.96380E-05  472044.8 3752129.8   524.8    3.49     4.00     3.25
YES
L0012310        0  0.96380E-05  472044.8 3752138.4   524.4    3.49     4.00     3.25
YES
L0012311        0  0.96380E-05  472044.7 3752147.0   524.0    3.49     4.00     3.25
YES
L0012312        0  0.96380E-05  472044.6 3752155.6   523.5    3.49     4.00     3.25
YES
L0012313        0  0.96380E-05  472044.6 3752164.2   523.1    3.49     4.00     3.25
YES
L0012314        0  0.96380E-05  472044.5 3752172.8   522.7    3.49     4.00     3.25
YES
L0012315        0  0.96380E-05  472044.4 3752181.4   522.3    3.49     4.00     3.25
YES
L0012316        0  0.96380E-05  472044.3 3752189.9   521.8    3.49     4.00     3.25
YES
L0012317        0  0.96380E-05  472044.3 3752198.5   521.4    3.49     4.00     3.25
YES
L0012318        0  0.96380E-05  472044.2 3752207.1   521.0    3.49     4.00     3.25
YES
L0009808        0  0.65480E-06  471632.2 3752328.9   517.7    3.49     4.00     3.25
YES
L0009809        0  0.65480E-06  471640.7 3752328.9   517.7    3.49     4.00     3.25
YES
L0009810        0  0.65480E-06  471649.3 3752329.0   518.0    3.49     4.00     3.25
YES
L0009811        0  0.65480E-06  471657.9 3752329.0   518.3    3.49     4.00     3.25
YES
L0009812        0  0.65480E-06  471666.5 3752329.1   518.6    3.49     4.00     3.25
YES
L0009813        0  0.65480E-06  471675.1 3752329.1   518.6    3.49     4.00     3.25
YES
L0009814        0  0.65480E-06  471683.7 3752329.2   518.3    3.49     4.00     3.25
YES
L0009815        0  0.65480E-06  471692.3 3752329.2   518.0    3.49     4.00     3.25
YES
L0009816        0  0.65480E-06  471700.9 3752329.3   517.8    3.49     4.00     3.25
YES
L0009817        0  0.65480E-06  471709.5 3752329.3   517.8    3.49     4.00     3.25
YES
L0009818        0  0.65480E-06  471718.1 3752329.4   517.8    3.49     4.00     3.25
YES
L0009819        0  0.43980E-06  471877.8 3752330.7   515.7    3.49     4.00     3.25
YES
L0009820        0  0.43980E-06  471886.4 3752330.7   515.9    3.49     4.00     3.25
YES
```

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L0009821          0   0.43980E-06  471895.0 3752330.8   515.9    3.49    4.00    3.25
YES
L0009822          0   0.43980E-06  471903.6 3752330.9   515.9    3.49    4.00    3.25
YES
L0009823          0   0.43980E-06  471912.2 3752330.9   515.8    3.49    4.00    3.25
YES
L0009824          0   0.43980E-06  471920.7 3752331.0   515.5    3.49    4.00    3.25
YES
L0009825          0   0.43980E-06  471929.3 3752331.0   515.2    3.49    4.00    3.25
YES
L0009826          0   0.43980E-06  471937.9 3752331.1   514.9    3.49    4.00    3.25
YES
L0009827          0   0.43980E-06  471946.5 3752331.1   515.0    3.49    4.00    3.25
YES
L0009828          0   0.43980E-06  471955.1 3752331.2   515.3    3.49    4.00    3.25
YES
L0009829          0   0.43980E-06  471963.7 3752331.3   515.5    3.49    4.00    3.25
YES
L0009830          0   0.43980E-06  471972.3 3752331.3   515.4    3.49    4.00    3.25
YES
L0009831          0   0.43980E-06  471980.9 3752331.4   514.6    3.49    4.00    3.25
YES
L0009832          0   0.43980E-06  471989.5 3752331.4   513.8    3.49    4.00    3.25
YES
L0009833          0   0.43980E-06  471998.1 3752331.5   513.0    3.49    4.00    3.25
YES
L0009834          0   0.43980E-06  472006.6 3752331.5   512.6    3.49    4.00    3.25
YES
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - -

```
L0009835          0   0.43980E-06  472015.2 3752331.6   512.2    3.49    4.00    3.25
YES
L0009836          0   0.43980E-06  472023.8 3752331.7   511.9    3.49    4.00    3.25
YES
L0009837          0   0.43980E-06  472032.4 3752331.7   511.4    3.49    4.00    3.25
YES
L0009838          0   0.43980E-06  472041.0 3752331.8   510.4    3.49    4.00    3.25
YES
L0009839          0   0.43980E-06  472049.6 3752331.8   509.5    3.49    4.00    3.25
YES
L0009840          0   0.33770E-06  471072.4 3752163.8   510.5    3.49    4.00    3.25
YES
L0009841          0   0.33770E-06  471072.4 3752172.4   509.7    3.49    4.00    3.25
YES
L0009842          0   0.33770E-06  471072.3 3752181.0   509.1    3.49    4.00    3.25
YES
L0009843          0   0.33770E-06  471072.2 3752189.5   508.8    3.49    4.00    3.25
YES
```

```
L0009844          0    0.33770E-06   471072.2 3752198.1   508.5    3.49    4.00    3.25
  YES
L0009845          0    0.33770E-06   471072.1 3752206.7   508.2    3.49    4.00    3.25
  YES
L0009846          0    0.33770E-06   471072.1 3752215.3   508.4    3.49    4.00    3.25
  YES
L0009847          0    0.33770E-06   471072.0 3752223.9   508.7    3.49    4.00    3.25
  YES
L0009848          0    0.33770E-06   471071.9 3752232.5   508.9    3.49    4.00    3.25
  YES
L0009849          0    0.33770E-06   471071.9 3752241.1   508.9    3.49    4.00    3.25
  YES
L0009850          0    0.33770E-06   471071.8 3752249.7   508.7    3.49    4.00    3.25
  YES
L0009851          0    0.33770E-06   471071.8 3752258.3   508.5    3.49    4.00    3.25
  YES
L0009852          0    0.33770E-06   471071.7 3752266.9   508.2    3.49    4.00    3.25
  YES
L0009853          0    0.49270E-06   471009.6 3751969.2   512.1    3.49    4.00    3.25
  YES
L0009854          0    0.49270E-06   471012.8 3751977.2   512.5    3.49    4.00    3.25
  YES
L0009855          0    0.49270E-06   471016.0 3751985.2   512.8    3.49    4.00    3.25
  YES
L0009856          0    0.49270E-06   471019.1 3751993.1   513.2    3.49    4.00    3.25
  YES
L0009857          0    0.49270E-06   471022.3 3752001.1   513.6    3.49    4.00    3.25
  YES
L0009858          0    0.49270E-06   471025.5 3752009.1   513.9    3.49    4.00    3.25
  YES
L0009859          0    0.49270E-06   471028.7 3752017.1   514.3    3.49    4.00    3.25
  YES
L0009860          0    0.58680E-06   471015.2 3751738.2   516.7    3.49    4.00    3.25
  YES
L0009861          0    0.58680E-06   471015.2 3751746.8   516.4    3.49    4.00    3.25
  YES
L0009862          0    0.58680E-06   471015.2 3751755.4   516.0    3.49    4.00    3.25
  YES
L0009863          0    0.58680E-06   471015.2 3751764.0   515.9    3.49    4.00    3.25
  YES
L0009864          0    0.58680E-06   471015.2 3751772.6   515.8    3.49    4.00    3.25
  YES
L0009865          0    0.58680E-06   471015.2 3751781.2   515.7    3.49    4.00    3.25
  YES
L0009866          0    0.58680E-06   471015.2 3751789.7   515.7    3.49    4.00    3.25
  YES
L0009867          0    0.58680E-06   471015.2 3751798.3   515.9    3.49    4.00    3.25
  YES
L0009868          0    0.58680E-06   471015.2 3751806.9   516.0    3.49    4.00    3.25
  YES
L0009869          0    0.58680E-06   471015.2 3751815.5   516.2    3.49    4.00    3.25
  YES
L0009870          0    0.43900E-06   471016.0 3751599.6   520.0    3.49    4.00    3.25
  YES
L0009871          0    0.43900E-06   471016.0 3751608.2   519.7    3.49    4.00    3.25
  YES
L0009872          0    0.43900E-06   471016.0 3751616.7   520.0    3.49    4.00    3.25
  YES
L0009873          0    0.43900E-06   471016.0 3751625.3   520.3    3.49    4.00    3.25
  YES
L0009874          0    0.43900E-06   471016.0 3751633.9   520.6    3.49    4.00    3.25
  YES
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 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0009875 YES	0	0.43900E-06	471016.0	3751642.5	520.6	3.49	4.00	3.25
L0009876 YES	0	0.43900E-06	471016.0	3751651.1	520.5	3.49	4.00	3.25
L0009877 YES	0	0.43900E-06	471016.0	3751659.7	520.5	3.49	4.00	3.25
L0009878 YES	0	0.43900E-06	471016.0	3751668.3	520.4	3.49	4.00	3.25
L0009879 YES	0	0.43900E-06	471016.0	3751676.9	519.9	3.49	4.00	3.25
L0009880 YES	0	0.35190E-06	471161.1	3751437.8	525.4	3.49	4.00	3.25
L0009881 YES	0	0.35190E-06	471161.1	3751429.2	525.1	3.49	4.00	3.25
L0009882 YES	0	0.35190E-06	471161.1	3751420.7	524.9	3.49	4.00	3.25
L0009883 YES	0	0.35190E-06	471161.1	3751412.1	524.6	3.49	4.00	3.25
L0009884 YES	0	0.35190E-06	471161.1	3751403.5	524.3	3.49	4.00	3.25
L0009885 YES	0	0.35190E-06	471161.1	3751394.9	524.2	3.49	4.00	3.25
L0009886 YES	0	0.35190E-06	471161.1	3751386.3	524.4	3.49	4.00	3.25
L0009887 YES	0	0.35190E-06	471161.1	3751377.7	524.7	3.49	4.00	3.25
L0009888 YES	0	0.35190E-06	471161.1	3751369.1	525.0	3.49	4.00	3.25
L0009889 YES	0	0.35190E-06	471161.1	3751360.5	524.9	3.49	4.00	3.25
L0009890 YES	0	0.35190E-06	471161.1	3751351.9	524.6	3.49	4.00	3.25
L0009891 YES	0	0.35190E-06	471161.1	3751343.3	524.3	3.49	4.00	3.25
L0009892 YES	0	0.35190E-06	471161.1	3751334.8	524.0	3.49	4.00	3.25
L0009893 YES	0	0.35190E-06	471161.1	3751326.2	523.8	3.49	4.00	3.25
L0012319 YES	0	0.10180E-05	471776.0	3751890.3	534.9	3.49	6.51	3.25
L0012320 YES	0	0.10180E-05	471762.0	3751890.2	534.7	3.49	6.51	3.25
L0012321 YES	0	0.10180E-05	471748.0	3751890.0	535.2	3.49	6.51	3.25
L0012322 YES	0	0.10180E-05	471734.0	3751889.9	535.8	3.49	6.51	3.25
L0012323 YES	0	0.10180E-05	471720.0	3751889.8	536.0	3.49	6.51	3.25
L0012324 YES	0	0.10180E-05	471706.0	3751889.7	536.0	3.49	6.51	3.25

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L0012325          0    0.10180E-05   471692.0 3751889.6   536.0      3.49      6.51      3.25
YES
L0012326          0    0.10180E-05   471678.0 3751889.5   536.0      3.49      6.51      3.25
YES
L0012327          0    0.10180E-05   471664.0 3751889.3   536.0      3.49      6.51      3.25
YES
L0012328          0    0.10180E-05   471650.0 3751889.2   536.0      3.49      6.51      3.25
YES
L0012329          0    0.10180E-05   471636.0 3751889.1   536.0      3.49      6.51      3.25
YES
L0012330          0    0.10180E-05   471622.0 3751889.0   536.0      3.49      6.51      3.25
YES
L0012331          0    0.10180E-05   471608.0 3751888.9   536.0      3.49      6.51      3.25
YES
L0012332          0    0.10180E-05   471594.0 3751888.7   536.0      3.49      6.51      3.25
YES
L0012333          0    0.10180E-05   471580.0 3751888.6   536.0      3.49      6.51      3.25
YES
L0012334          0    0.10180E-05   471566.0 3751888.5   535.4      3.49      6.51      3.25
YES
L0012335          0    0.10180E-05   471552.0 3751888.4   534.7      3.49      6.51      3.25
YES
L0012336          0    0.10180E-05   471538.0 3751888.3   533.6      3.49      6.51      3.25
YES
L0012337          0    0.10180E-05   471524.0 3751888.2   532.4      3.49      6.51      3.25
YES
L0012338          0    0.10180E-05   471510.0 3751888.0   531.5      3.49      6.51      3.25
YES
L0012339          0    0.10180E-05   471496.0 3751887.9   530.7      3.49      6.51      3.25
YES
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0012340	0	0.10180E-05	471482.0	3751887.8	529.9	3.49	6.51	3.25
YES								
L0012341	0	0.10180E-05	471468.0	3751887.7	528.9	3.49	6.51	3.25
YES								
L0012342	0	0.10180E-05	471454.0	3751887.6	528.2	3.49	6.51	3.25
YES								
L0012343	0	0.10180E-05	471440.0	3751887.4	527.7	3.49	6.51	3.25
YES								
L0012344	0	0.10180E-05	471426.0	3751887.3	527.1	3.49	6.51	3.25
YES								
L0012345	0	0.10180E-05	471412.0	3751887.2	526.0	3.49	6.51	3.25
YES								
L0012346	0	0.10180E-05	471398.0	3751887.1	524.9	3.49	6.51	3.25
YES								
L0012347	0	0.10180E-05	471384.0	3751887.0	524.5	3.49	6.51	3.25
YES								

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L0012348          0   0.10180E-05   471370.0 3751886.8   524.0     3.49      6.51      3.25
   YES
L0012349          0   0.10180E-05   471356.0 3751886.7   523.5     3.49      6.51      3.25
   YES
L0012350          0   0.10180E-05   471342.0 3751886.6   523.1     3.49      6.51      3.25
   YES
L0012351          0   0.10180E-05   471328.0 3751886.5   522.9     3.49      6.51      3.25
   YES
L0012352          0   0.10180E-05   471314.0 3751886.4   522.7     3.49      6.51      3.25
   YES
L0012353          0   0.10180E-05   471300.0 3751886.3   522.7     3.49      6.51      3.25
   YES
L0012354          0   0.10180E-05   471286.0 3751886.1   522.6     3.49      6.51      3.25
   YES
L0012355          0   0.10180E-05   471272.0 3751886.0   523.0     3.49      6.51      3.25
   YES
L0012356          0   0.10180E-05   471258.0 3751885.9   523.6     3.49      6.51      3.25
   YES
L0012357          0   0.10180E-05   471244.0 3751885.8   524.2     3.49      6.51      3.25
   YES
L0012358          0   0.10180E-05   471230.0 3751885.7   524.6     3.49      6.51      3.25
   YES
L0012359          0   0.10180E-05   471216.0 3751885.5   525.0     3.49      6.51      3.25
   YES
L0012360          0   0.10180E-05   471202.0 3751885.4   525.0     3.49      6.51      3.25
   YES
L0012361          0   0.10180E-05   471188.0 3751885.3   524.9     3.49      6.51      3.25
   YES
L0012362          0   0.10180E-05   471174.0 3751885.2   524.5     3.49      6.51      3.25
   YES
L0012363          0   0.10180E-05   471160.0 3751885.1   524.0     3.49      6.51      3.25
   YES
L0012364          0   0.10180E-05   471146.0 3751885.0   522.2     3.49      6.51      3.25
   YES
L0012365          0   0.10180E-05   471132.0 3751884.8   520.3     3.49      6.51      3.25
   YES
L0012366          0   0.10180E-05   471118.0 3751884.7   518.9     3.49      6.51      3.25
   YES
L0012367          0   0.10180E-05   471104.0 3751884.6   517.7     3.49      6.51      3.25
   YES
L0012368          0   0.10180E-05   471090.0 3751884.5   516.1     3.49      6.51      3.25
   YES
L0012369          0   0.10180E-05   471076.0 3751884.4   514.3     3.49      6.51      3.25
   YES
L0012370          0   0.25280E-05   471790.0 3751890.8   535.1     3.49      6.51      3.25
   YES
L0012371          0   0.25280E-05   471804.0 3751891.0   535.5     3.49      6.51      3.25
   YES
L0012372          0   0.25280E-05   471818.0 3751891.2   535.9     3.49      6.51      3.25
   YES
L0012373          0   0.25280E-05   471832.0 3751891.4   536.4     3.49      6.51      3.25
   YES
L0012374          0   0.25280E-05   471846.0 3751891.6   536.9     3.49      6.51      3.25
   YES
L0012375          0   0.25280E-05   471860.0 3751891.8   537.0     3.49      6.51      3.25
   YES
L0012376          0   0.25280E-05   471874.0 3751892.0   537.0     3.49      6.51      3.25
   YES
L0012377          0   0.25280E-05   471888.0 3751892.2   536.6     3.49      6.51      3.25
   YES
L0012378          0   0.25280E-05   471902.0 3751892.4   535.9     3.49      6.51      3.25
   YES
L0012379          0   0.25280E-05   471916.0 3751892.5   534.9     3.49      6.51      3.25
   YES
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*** AERMET - VERSION  16216 ***
***                                                      ***        11:53:41

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                            *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X         Y       ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)               BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0012380      0   0.25280E-05  471930.0 3751892.7   533.7     3.49     6.51     3.25
YES
L0012381      0   0.25280E-05  471944.0 3751892.3   532.5     3.49     6.51     3.25
YES
L0012382      0   0.25280E-05  471957.9 3751891.2   531.2     3.49     6.51     3.25
YES
L0012383      0   0.25280E-05  471971.8 3751889.8   530.2     3.49     6.51     3.25
YES
L0012384      0   0.25280E-05  471985.7 3751887.7   530.8     3.49     6.51     3.25
YES
L0012385      0   0.25280E-05  471999.6 3751885.7   531.4     3.49     6.51     3.25
YES
L0012386      0   0.25280E-05  472013.4 3751883.7   531.3     3.49     6.51     3.25
YES
L0012387      0   0.25280E-05  472027.3 3751881.6   531.0     3.49     6.51     3.25
YES
L0012388      0   0.25280E-05  472040.8 3751877.9   530.6     3.49     6.51     3.25
YES
L0012389      0   0.25280E-05  472054.2 3751874.1   530.3     3.49     6.51     3.25
YES
L0012390      0   0.25280E-05  472067.7 3751870.2   530.4     3.49     6.51     3.25
YES
L0012391      0   0.25280E-05  472081.1 3751866.3   530.4     3.49     6.51     3.25
YES
L0012392      0   0.25280E-05  472094.6 3751862.5   530.2     3.49     6.51     3.25
YES
L0012393      0   0.25280E-05  472108.0 3751858.6   529.6     3.49     6.51     3.25
YES
L0012394      0   0.25280E-05  472121.5 3751854.7   528.7     3.49     6.51     3.25
YES
L0012395      0   0.25280E-05  472134.9 3751850.9   526.1     3.49     6.51     3.25
YES
L0012396      0   0.25280E-05  472148.6 3751847.8   523.3     3.49     6.51     3.25
YES
L0012397      0   0.25280E-05  472162.3 3751845.1   521.0     3.49     6.51     3.25
YES
L0012398      0   0.25280E-05  472176.1 3751842.4   519.0     3.49     6.51     3.25
YES
L0012399      0   0.25280E-05  472189.8 3751839.6   518.4     3.49     6.51     3.25
YES
L0012400      0   0.25280E-05  472203.7 3751838.5   518.2     3.49     6.51     3.25
YES
L0012401      0   0.25280E-05  472217.7 3751837.5   518.3     3.49     6.51     3.25
YES
L0012402      0   0.25280E-05  472231.7 3751836.4   518.6     3.49     6.51     3.25
YES
L0012403      0   0.25280E-05  472245.6 3751835.3   517.9     3.49     6.51     3.25
YES
```

```
L0012404        0   0.25280E-05  472259.6 3751835.5   515.8     3.49     6.51     3.25
   YES
L0012405        0   0.25280E-05  472273.5 3751836.4   513.8     3.49     6.51     3.25
   YES
L0012406        0   0.25280E-05  472287.5 3751837.3   512.7     3.49     6.51     3.25
   YES
L0012407        0   0.25280E-05  472301.5 3751838.2   511.8     3.49     6.51     3.25
   YES
L0012408        0   0.25280E-05  472315.5 3751839.2   511.2     3.49     6.51     3.25
   YES
L0012409        0   0.25280E-05  472329.4 3751840.1   510.7     3.49     6.51     3.25
   YES
L0012410        0   0.25280E-05  472343.4 3751841.0   508.7     3.49     6.51     3.25
   YES
L0012411        0   0.25280E-05  472357.4 3751841.9   506.8     3.49     6.51     3.25
   YES
L0012412        0   0.25280E-05  472371.3 3751842.9   505.9     3.49     6.51     3.25
   YES
L0012413        0   0.25280E-05  472385.3 3751843.8   505.4     3.49     6.51     3.25
   YES
L0012414        0   0.25280E-05  472399.3 3751844.9   505.1     3.49     6.51     3.25
   YES
L0012415        0   0.25280E-05  472413.2 3751846.1   505.0     3.49     6.51     3.25
   YES
L0012416        0   0.25280E-05  472427.2 3751847.2   505.2     3.49     6.51     3.25
   YES
L0012417        0   0.25280E-05  472441.1 3751848.3   505.7     3.49     6.51     3.25
   YES
L0012418        0   0.25280E-05  472455.1 3751849.5   505.7     3.49     6.51     3.25
   YES
L0012419        0   0.25280E-05  472469.0 3751850.6   504.9     3.49     6.51     3.25
   YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                                          *** VOLUME SOURCE DATA ***


             NUMBER EMISSION RATE                   BASE     RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X         Y      ELEV.    HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0012420        0   0.25280E-05  472483.0 3751851.8   504.0     3.49     6.51     3.25
   YES
L0012421        0   0.25280E-05  472496.9 3751852.9   502.8     3.49     6.51     3.25
   YES
L0012422        0   0.25280E-05  472510.9 3751854.0   501.7     3.49     6.51     3.25
   YES
L0012423        0   0.25280E-05  472524.8 3751855.2   501.2     3.49     6.51     3.25
   YES
L0012424        0   0.25280E-05  472538.8 3751856.3   500.7     3.49     6.51     3.25
   YES
L0012425        0   0.25280E-05  472552.7 3751857.4   499.7     3.49     6.51     3.25
   YES
L0012426        0   0.25280E-05  472566.7 3751858.6   498.6     3.49     6.51     3.25
   YES
```

L0012427	0	0.25280E-05	472580.7	3751859.7	497.0	3.49	6.51	3.25
YES								
L0012428	0	0.25280E-05	472594.6	3751860.9	495.1	3.49	6.51	3.25
YES								
L0012429	0	0.25280E-05	472608.6	3751862.0	494.4	3.49	6.51	3.25
YES								
L0012430	0	0.25280E-05	472622.5	3751863.0	494.1	3.49	6.51	3.25
YES								
L0012431	0	0.25280E-05	472636.5	3751864.0	493.7	3.49	6.51	3.25
YES								
L0012432	0	0.25280E-05	472650.5	3751865.1	493.2	3.49	6.51	3.25
YES								
L0012433	0	0.25280E-05	472664.3	3751866.7	492.6	3.49	6.51	3.25
YES								
L0012434	0	0.25280E-05	472678.2	3751868.4	492.1	3.49	6.51	3.25
YES								
L0012435	0	0.25280E-05	472691.6	3751872.7	491.4	3.49	6.51	3.25
YES								
L0012436	0	0.25280E-05	472704.9	3751877.1	491.5	3.49	6.51	3.25
YES								
L0012437	0	0.25280E-05	472718.2	3751881.5	491.3	3.49	6.51	3.25
YES								
L0012438	0	0.25280E-05	472731.4	3751885.9	491.2	3.49	6.51	3.25
YES								
L0012439	0	0.25280E-05	472744.7	3751890.3	491.0	3.49	6.51	3.25
YES								
L0012440	0	0.25280E-05	472758.0	3751894.7	490.7	3.49	6.51	3.25
YES								
L0012441	0	0.25280E-05	472771.3	3751899.0	490.2	3.49	6.51	3.25
YES								
L0012442	0	0.25280E-05	472784.6	3751903.4	489.8	3.49	6.51	3.25
YES								
L0012443	0	0.25280E-05	472797.9	3751907.8	490.1	3.49	6.51	3.25
YES								
L0012444	0	0.25280E-05	472811.2	3751912.2	490.4	3.49	6.51	3.25
YES								
L0012445	0	0.25280E-05	472824.5	3751916.6	489.3	3.49	6.51	3.25
YES								
L0012446	0	0.25280E-05	472837.8	3751921.0	488.6	3.49	6.51	3.25
YES								
L0012447	0	0.25280E-05	472851.1	3751925.4	488.2	3.49	6.51	3.25
YES								
L0012448	0	0.25280E-05	472864.4	3751929.8	488.0	3.49	6.51	3.25
YES								
L0012449	0	0.25280E-05	472877.7	3751934.2	488.0	3.49	6.51	3.25
YES								
L0012450	0	0.25280E-05	472891.0	3751938.6	488.0	3.49	6.51	3.25
YES								
L0012451	0	0.25280E-05	472904.2	3751943.1	487.9	3.49	6.51	3.25
YES								
L0012452	0	0.25280E-05	472917.5	3751947.6	487.4	3.49	6.51	3.25
YES								
L0012453	0	0.25280E-05	472930.7	3751952.2	487.0	3.49	6.51	3.25
YES								
L0012454	0	0.25280E-05	472943.9	3751956.7	487.0	3.49	6.51	3.25
YES								
L0012455	0	0.25280E-05	472957.2	3751961.3	487.0	3.49	6.51	3.25
YES								
L0012456	0	0.25280E-05	472970.4	3751965.8	486.6	3.49	6.51	3.25
YES								
L0012457	0	0.25280E-05	472983.7	3751970.3	486.1	3.49	6.51	3.25
YES								
L0012458	0	0.25280E-05	472996.9	3751974.9	485.6	3.49	6.51	3.25
YES								
L0012459	0	0.25280E-05	473010.2	3751979.4	485.2	3.49	6.51	3.25
YES								

🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

| L0012460 | 0 | 0.25280E-05 | 473023.2 | 3751984.4 | 484.9 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012461 | 0 | 0.25280E-05 | 473036.3 | 3751989.5 | 484.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012462 | 0 | 0.25280E-05 | 473049.4 | 3751994.3 | 484.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012463 | 0 | 0.25280E-05 | 473062.9 | 3751998.2 | 483.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012464 | 0 | 0.25280E-05 | 473076.4 | 3752002.0 | 483.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012465 | 0 | 0.25280E-05 | 473089.8 | 3752005.8 | 483.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012466 | 0 | 0.25280E-05 | 473103.5 | 3752008.7 | 483.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012467 | 0 | 0.25280E-05 | 473117.2 | 3752011.6 | 482.8 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012468 | 0 | 0.25280E-05 | 473131.1 | 3752013.3 | 482.3 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012469 | 0 | 0.25280E-05 | 473145.0 | 3752014.9 | 481.9 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012470 | 0 | 0.25280E-05 | 473158.9 | 3752016.5 | 481.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012471 | 0 | 0.25280E-05 | 473172.9 | 3752017.7 | 481.3 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012472 | 0 | 0.25280E-05 | 473186.9 | 3752017.3 | 481.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012473 | 0 | 0.25280E-05 | 473200.8 | 3752017.0 | 481.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012474 | 0 | 0.25280E-05 | 473214.8 | 3752016.6 | 480.5 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012475 | 0 | 0.25280E-05 | 473228.8 | 3752016.3 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012476 | 0 | 0.25280E-05 | 473242.8 | 3752016.8 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012477 | 0 | 0.25280E-05 | 473256.8 | 3752017.8 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012478 | 0 | 0.25280E-05 | 473270.7 | 3752018.9 | 479.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012479 | 0 | 0.25280E-05 | 473284.7 | 3752019.9 | 479.2 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012480 | 0 | 0.25280E-05 | 473298.7 | 3752021.0 | 478.7 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012481 | 0 | 0.25280E-05 | 473312.6 | 3752022.0 | 478.2 | 3.49 | 6.51 | 3.25 |
| YES |
| L0012482 | 0 | 0.25280E-05 | 473326.5 | 3752023.6 | 477.8 | 3.49 | 6.51 | 3.25 |
| YES |

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L0012483        0   0.25280E-05  473340.4 3752025.4   477.3    3.49     6.51    3.25
YES
L0012484        0   0.25280E-05  473354.3 3752027.2   476.8    3.49     6.51    3.25
YES
L0012485        0   0.25280E-05  473368.2 3752028.9   476.4    3.49     6.51    3.25
YES
L0012486        0   0.25280E-05  473382.1 3752030.7   476.0    3.49     6.51    3.25
YES
L0012487        0   0.25280E-05  473396.0 3752032.5   476.0    3.49     6.51    3.25
YES
L0012488        0   0.25280E-05  473409.8 3752034.2   476.0    3.49     6.51    3.25
YES
L0012489        0   0.25280E-05  473423.7 3752036.1   475.7    3.49     6.51    3.25
YES
L0012490        0   0.25280E-05  473437.4 3752039.2   475.5    3.49     6.51    3.25
YES
L0012491        0   0.63630E-06  471063.9 3751893.1   513.6    3.49     6.51    3.25
YES
L0012492        0   0.63630E-06  471064.4 3751907.0   514.5    3.49     6.51    3.25
YES
L0012493        0   0.63630E-06  471065.0 3751921.0   515.5    3.49     6.51    3.25
YES
L0012494        0   0.63630E-06  471065.5 3751935.0   516.5    3.49     6.51    3.25
YES
L0012495        0   0.63630E-06  471066.5 3751949.0   516.6    3.49     6.51    3.25
YES
L0012496        0   0.63630E-06  471067.5 3751962.9   516.7    3.49     6.51    3.25
YES
L0012497        0   0.63630E-06  471069.2 3751976.8   516.6    3.49     6.51    3.25
YES
L0012498        0   0.63630E-06  471073.6 3751990.1   516.3    3.49     6.51    3.25
YES
L0012499        0   0.63630E-06  471077.9 3752003.4   516.3    3.49     6.51    3.25
YES
```

⚏ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0012500	0	0.63630E-06	471082.3	3752016.7	516.4	3.49	6.51	3.25
YES								
L0012501	0	0.63630E-06	471086.7	3752030.0	516.4	3.49	6.51	3.25
YES								
L0012502	0	0.63630E-06	471091.1	3752043.3	515.8	3.49	6.51	3.25
YES								
L0012503	0	0.63630E-06	471095.5	3752056.5	515.0	3.49	6.51	3.25
YES								
L0012504	0	0.63630E-06	471100.4	3752069.7	514.1	3.49	6.51	3.25
YES								
L0012505	0	0.63630E-06	471105.2	3752082.8	513.3	3.49	6.51	3.25
YES								

L0012506	0	0.63630E-06	471110.0	3752096.0	512.7	3.49	6.51	3.25
YES								
L0012507	0	0.63630E-06	471114.8	3752109.1	512.2	3.49	6.51	3.25
YES								
L0012508	0	0.63630E-06	471119.2	3752122.4	512.2	3.49	6.51	3.25
YES								
L0012509	0	0.63630E-06	471121.8	3752136.1	512.6	3.49	6.51	3.25
YES								
L0012510	0	0.63630E-06	471124.4	3752149.9	512.9	3.49	6.51	3.25
YES								
L0012511	0	0.63630E-06	471126.2	3752163.7	512.4	3.49	6.51	3.25
YES								
L0012512	0	0.63630E-06	471126.0	3752177.7	512.0	3.49	6.51	3.25
YES								
L0012513	0	0.63630E-06	471125.9	3752191.7	511.9	3.49	6.51	3.25
YES								
L0012514	0	0.63630E-06	471125.8	3752205.7	511.8	3.49	6.51	3.25
YES								
L0012515	0	0.63630E-06	471125.6	3752219.7	511.7	3.49	6.51	3.25
YES								
L0012516	0	0.63630E-06	471125.5	3752233.7	511.7	3.49	6.51	3.25
YES								
L0012517	0	0.63630E-06	471125.3	3752247.7	511.8	3.49	6.51	3.25
YES								
L0012518	0	0.63630E-06	471131.0	3752256.0	512.0	3.49	6.51	3.25
YES								
L0012519	0	0.63630E-06	471145.0	3752256.1	512.5	3.49	6.51	3.25
YES								
L0012520	0	0.63630E-06	471159.0	3752256.3	513.0	3.49	6.51	3.25
YES								
L0012521	0	0.63630E-06	471173.0	3752256.4	513.8	3.49	6.51	3.25
YES								
L0012522	0	0.63630E-06	471187.0	3752256.5	514.5	3.49	6.51	3.25
YES								
L0012523	0	0.63630E-06	471201.0	3752256.7	515.0	3.49	6.51	3.25
YES								
L0012524	0	0.63630E-06	471215.0	3752256.8	515.5	3.49	6.51	3.25
YES								
L0012525	0	0.63630E-06	471229.0	3752256.9	515.3	3.49	6.51	3.25
YES								
L0012526	0	0.63630E-06	471243.0	3752257.1	514.9	3.49	6.51	3.25
YES								
L0012527	0	0.63630E-06	471257.0	3752257.2	514.7	3.49	6.51	3.25
YES								
L0012528	0	0.63630E-06	471271.0	3752257.3	514.8	3.49	6.51	3.25
YES								
L0012529	0	0.63630E-06	471285.0	3752257.5	515.0	3.49	6.51	3.25
YES								
L0012530	0	0.63630E-06	471299.0	3752257.6	515.4	3.49	6.51	3.25
YES								
L0012531	0	0.63630E-06	471313.0	3752257.7	515.8	3.49	6.51	3.25
YES								
L0012532	0	0.63630E-06	471327.0	3752257.9	516.6	3.49	6.51	3.25
YES								
L0012533	0	0.63630E-06	471341.0	3752258.0	517.3	3.49	6.51	3.25
YES								
L0012534	0	0.63630E-06	471355.0	3752258.1	517.4	3.49	6.51	3.25
YES								
L0012535	0	0.63630E-06	471369.0	3752258.3	517.5	3.49	6.51	3.25
YES								
L0012536	0	0.63630E-06	471383.0	3752258.4	518.0	3.49	6.51	3.25
YES								
L0012537	0	0.63630E-06	471397.0	3752258.6	518.4	3.49	6.51	3.25
YES								
L0012538	0	0.63630E-06	471411.0	3752258.7	518.6	3.49	6.51	3.25
YES								

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L0012539        0   0.75850E-06  471428.8 3752257.7  518.9    3.49     6.51    3.25
   YES
```
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
             URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV. HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - -

L0012540   0   0.75850E-06 471442.8 3752257.8 519.0   3.49   6.51   3.25
   YES
L0012541   0   0.75850E-06 471456.8 3752257.9 519.1   3.49   6.51   3.25
   YES
L0012542   0   0.75850E-06 471470.8 3752257.9 519.5   3.49   6.51   3.25
   YES
L0012543   0   0.75850E-06 471484.8 3752258.0 520.0   3.49   6.51   3.25
   YES
L0012544   0   0.75850E-06 471498.8 3752258.1 520.8   3.49   6.51   3.25
   YES
L0012545   0   0.75850E-06 471512.8 3752258.2 521.8   3.49   6.51   3.25
   YES
L0012546   0   0.75850E-06 471526.8 3752258.3 522.5   3.49   6.51   3.25
   YES
L0012547   0   0.75850E-06 471540.8 3752258.4 523.0   3.49   6.51   3.25
   YES
L0012548   0   0.75850E-06 471554.8 3752258.5 522.8   3.49   6.51   3.25
   YES
L0012549   0   0.75850E-06 471568.8 3752258.5 521.5   3.49   6.51   3.25
   YES
L0012550   0   0.75850E-06 471582.8 3752258.6 520.4   3.49   6.51   3.25
   YES
L0012551   0   0.75850E-06 471596.8 3752258.7 519.7   3.49   6.51   3.25
   YES
L0012552   0   0.75850E-06 471610.8 3752258.8 519.1   3.49   6.51   3.25
   YES
L0012553   0   0.75850E-06 471624.8 3752258.9 519.9   3.49   6.51   3.25
   YES
L0012554   0   0.75850E-06 471638.8 3752259.0 520.7   3.49   6.51   3.25
   YES
L0012555   0   0.75850E-06 471652.8 3752259.1 522.0   3.49   6.51   3.25
   YES
L0012556   0   0.75850E-06 471666.8 3752259.1 523.2   3.49   6.51   3.25
   YES
L0012557   0   0.75850E-06 471680.8 3752259.2 523.2   3.49   6.51   3.25
   YES
L0012558   0   0.75850E-06 471694.8 3752259.3 522.8   3.49   6.51   3.25
   YES
L0012559   0   0.75850E-06 471708.8 3752259.4 522.6   3.49   6.51   3.25
   YES
L0012560   0   0.75850E-06 471722.8 3752259.5 522.3   3.49   H6.51   3.25
   YES
L0012561   0   0.75850E-06 471736.8 3752259.6 521.9   3.49   6.51   3.25
   YES
```

```
L0012562        0   0.75850E-06  471750.8 3752259.7   521.4     3.49      6.51     3.25
  YES
L0012563        0   0.75850E-06  471764.8 3752259.7   520.6     3.49      6.51     3.25
  YES
L0012564        0   0.75850E-06  471778.8 3752259.8   519.7     3.49      6.51     3.25
  YES
L0012565        0   0.75850E-06  471780.4 3752247.4   519.6     3.49      6.51     3.25
  YES
L0012566        0   0.75850E-06  471780.5 3752233.4   519.5     3.49      6.51     3.25
  YES
L0012567        0   0.75850E-06  471780.6 3752219.4   519.2     3.49      6.51     3.25
  YES
L0012568        0   0.75850E-06  471780.7 3752205.4   518.9     3.49      6.51     3.25
  YES
L0012569        0   0.75850E-06  471780.8 3752191.4   518.7     3.49      6.51     3.25
  YES
L0012570        0   0.75850E-06  471780.9 3752177.4   518.6     3.49      6.51     3.25
  YES
L0012571        0   0.75850E-06  471781.0 3752163.4   518.7     3.49      6.51     3.25
  YES
L0012572        0   0.75850E-06  471781.1 3752149.4   518.8     3.49      6.51     3.25
  YES
L0012573        0   0.75850E-06  471781.3 3752135.4   519.5     3.49      6.51     3.25
  YES
L0012574        0   0.75850E-06  471781.4 3752121.4   520.3     3.49      6.51     3.25
  YES
L0012575        0   0.75850E-06  471781.5 3752107.4   521.6     3.49      6.51     3.25
  YES
L0012576        0   0.75850E-06  471781.6 3752093.4   523.2     3.49      6.51     3.25
  YES
L0012577        0   0.75850E-06  471781.7 3752079.4   524.1     3.49      6.51     3.25
  YES
L0012578        0   0.75850E-06  471781.8 3752065.4   524.2     3.49      6.51     3.25
  YES
L0012579        0   0.75850E-06  471781.9 3752051.4   524.4     3.49      6.51     3.25
  YES
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                                          *** VOLUME SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X        Y       ELEV.    HEIGHT      SY        SZ
   SOURCE  SCALAR VARY
    ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -


L0012580        0   0.75850E-06  471782.0 3752037.4   524.9     3.49      6.51     3.25
  YES
L0012581        0   0.75850E-06  471782.1 3752023.4   525.6     3.49      6.51     3.25
  YES
L0012582        0   0.75850E-06  471782.2 3752009.4   527.0     3.49      6.51     3.25
  YES
L0012583        0   0.75850E-06  471782.3 3751995.4   528.3     3.49      6.51     3.25
  YES
L0012584        0   0.75850E-06  471782.5 3751981.4   528.8     3.49      6.51     3.25
  YES
```

L0012585 YES	0	0.75850E-06	471782.6	3751967.4	529.2	3.49	6.51	3.25
L0012586 YES	0	0.75850E-06	471782.7	3751953.4	529.7	3.49	6.51	3.25
L0012587 YES	0	0.75850E-06	471782.8	3751939.4	530.1	3.49	6.51	3.25
L0012588 YES	0	0.75850E-06	471782.9	3751925.4	531.6	3.49	6.51	3.25
L0012589 YES	0	0.75850E-06	471783.0	3751911.4	533.2	3.49	6.51	3.25
L0012590 YES	0	0.75850E-06	471783.1	3751897.4	534.5	3.49	6.51	3.25
L0012591 YES	0	0.38060E-06	471064.0	3751877.5	512.7	3.49	6.51	3.25
L0012592 YES	0	0.38060E-06	471064.1	3751863.5	512.4	3.49	6.51	3.25
L0012593 YES	0	0.38060E-06	471064.2	3751849.5	512.1	3.49	6.51	3.25
L0012594 YES	0	0.38060E-06	471064.4	3751835.5	512.1	3.49	6.51	3.25
L0012595 YES	0	0.38060E-06	471064.5	3751821.5	512.1	3.49	6.51	3.25
L0012596 YES	0	0.38060E-06	471064.6	3751807.5	512.5	3.49	6.51	3.25
L0012597 YES	0	0.38060E-06	471064.8	3751793.5	512.9	3.49	6.51	3.25
L0012598 YES	0	0.38060E-06	471064.9	3751779.5	513.8	3.49	6.51	3.25
L0012599 YES	0	0.38060E-06	471065.0	3751765.5	515.2	3.49	6.51	3.25
L0012600 YES	0	0.38060E-06	471065.1	3751751.5	516.5	3.49	6.51	3.25
L0012601 YES	0	0.38060E-06	471065.3	3751737.5	517.8	3.49	6.51	3.25
L0012602 YES	0	0.38060E-06	471065.4	3751723.5	519.1	3.49	6.51	3.25
L0012603 YES	0	0.38060E-06	471065.5	3751709.5	519.9	3.49	6.51	3.25
L0012604 YES	0	0.38060E-06	471065.7	3751695.5	520.9	3.49	6.51	3.25
L0012605 YES	0	0.38060E-06	471065.8	3751681.5	522.3	3.49	6.51	3.25
L0012606 YES	0	0.38060E-06	471065.9	3751667.5	523.7	3.49	6.51	3.25
L0012607 YES	0	0.38060E-06	471066.1	3751653.5	524.2	3.49	6.51	3.25
L0012608 YES	0	0.38060E-06	471066.2	3751639.5	524.7	3.49	6.51	3.25
L0012609 YES	0	0.38060E-06	471066.3	3751625.5	524.4	3.49	6.51	3.25
L0012610 YES	0	0.38060E-06	471066.4	3751611.5	523.9	3.49	6.51	3.25
L0012611 YES	0	0.38060E-06	471066.6	3751597.5	523.8	3.49	6.51	3.25
L0012612 YES	0	0.38060E-06	471066.7	3751583.5	523.8	3.49	6.51	3.25
L0012613 YES	0	0.38060E-06	471066.8	3751569.5	523.8	3.49	6.51	3.25
L0012614 YES	0	0.38060E-06	471067.0	3751555.5	523.9	3.49	6.51	3.25
L0012615 YES	0	0.38060E-06	471067.1	3751541.5	523.7	3.49	6.51	3.25
L0012616 YES	0	0.38060E-06	471067.2	3751527.5	523.2	3.49	6.51	3.25
L0012617 YES	0	0.38060E-06	471067.3	3751513.5	522.6	3.49	6.51	3.25

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L0012618          0   0.38060E-06   471080.9 3751513.1   522.8    3.49    6.51    3.25
  YES
L0012619          0   0.38060E-06   471094.9 3751513.2   523.0    3.49    6.51    3.25
  YES
```
🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0012620 YES	0	0.38060E-06	471108.9	3751513.3	523.3	3.49	6.51	3.25
L0012621 YES	0	0.38060E-06	471122.9	3751513.4	523.8	3.49	6.51	3.25
L0012622 YES	0	0.38060E-06	471136.9	3751513.5	524.2	3.49	6.51	3.25
L0012623 YES	0	0.38060E-06	471150.9	3751513.6	524.7	3.49	6.51	3.25
L0012624 YES	0	0.38060E-06	471164.9	3751513.7	525.3	3.49	6.51	3.25
L0012625 YES	0	0.38060E-06	471178.9	3751513.8	526.2	3.49	6.51	3.25
L0012626 YES	0	0.38060E-06	471192.9	3751514.0	527.0	3.49	6.51	3.25
L0012627 YES	0	0.38060E-06	471206.9	3751514.1	527.5	3.49	6.51	3.25
L0012628 YES	0	0.38060E-06	471220.9	3751514.2	528.0	3.49	6.51	3.25
L0012629 YES	0	0.38060E-06	471234.9	3751514.3	528.5	3.49	6.51	3.25
L0012630 YES	0	0.38060E-06	471248.9	3751514.4	529.0	3.49	6.51	3.25
L0012631 YES	0	0.38060E-06	471262.9	3751514.5	529.4	3.49	6.51	3.25
L0012632 YES	0	0.38060E-06	471276.9	3751514.6	529.9	3.49	6.51	3.25
L0012633 YES	0	0.38060E-06	471290.9	3751514.7	530.0	3.49	6.51	3.25
L0012634 YES	0	0.38060E-06	471304.9	3751514.8	530.0	3.49	6.51	3.25
L0012635 YES	0	0.38060E-06	471318.9	3751514.9	530.4	3.49	6.51	3.25
L0012636 YES	0	0.38060E-06	471332.9	3751515.0	530.9	3.49	6.51	3.25
L0012637 YES	0	0.38060E-06	471346.9	3751515.1	532.1	3.49	6.51	3.25
L0012638 YES	0	0.38060E-06	471360.9	3751515.2	533.9	3.49	6.51	3.25
L0012639 YES	0	0.38060E-06	471374.9	3751515.3	535.2	3.49	6.51	3.25
L0012640 YES	0	0.38060E-06	471388.9	3751515.4	535.7	3.49	6.51	3.25

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L0012641        0  0.38060E-06  471402.9 3751515.5   535.9    3.49    6.51    3.25
   YES
L0012642        0  0.38060E-06  471416.9 3751515.6   535.5    3.49    6.51    3.25
   YES
L0012643        0  0.38060E-06  471430.9 3751515.7   535.0    3.49    6.51    3.25
   YES
L0012644        0  0.76350E-06  471444.9 3751517.4   534.5    3.49    6.51    3.25
   YES
L0012645        0  0.76350E-06  471458.9 3751517.5   534.0    3.49    6.51    3.25
   YES
L0012646        0  0.76350E-06  471472.9 3751517.6   533.5    3.49    6.51    3.25
   YES
L0012647        0  0.76350E-06  471486.9 3751517.7   533.0    3.49    6.51    3.25
   YES
L0012648        0  0.76350E-06  471500.9 3751517.8   532.2    3.49    6.51    3.25
   YES
L0012649        0  0.76350E-06  471514.9 3751517.9   531.3    3.49    6.51    3.25
   YES
L0012650        0  0.76350E-06  471528.9 3751518.0   530.7    3.49    6.51    3.25
   YES
L0012651        0  0.76350E-06  471542.9 3751518.1   530.2    3.49    6.51    3.25
   YES
L0012652        0  0.76350E-06  471556.9 3751518.2   530.0    3.49    6.51    3.25
   YES
L0012653        0  0.76350E-06  471570.9 3751518.3   530.0    3.49    6.51    3.25
   YES
L0012654        0  0.76350E-06  471584.9 3751518.4   530.0    3.49    6.51    3.25
   YES
L0012655        0  0.76350E-06  471598.9 3751518.5   530.0    3.49    6.51    3.25
   YES
L0012656        0  0.76350E-06  471612.9 3751518.6   530.0    3.49    6.51    3.25
   YES
L0012657        0  0.76350E-06  471626.9 3751518.7   530.0    3.49    6.51    3.25
   YES
L0012658        0  0.76350E-06  471640.9 3751518.8   529.9    3.49    6.51    3.25
   YES
L0012659        0  0.76350E-06  471654.9 3751518.9   529.4    3.49    6.51    3.25
   YES
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - -

L0012660   0 0.76350E-06 471668.9 3751519.0   529.0   3.49   6.51   3.25
   YES
L0012661   0 0.76350E-06 471682.9 3751519.1   529.5   3.49   6.51   3.25
   YES
L0012662   0 0.76350E-06 471696.9 3751519.2   530.0   3.49   6.51   3.25
   YES
L0012663   0 0.76350E-06 471710.9 3751519.3   530.8   3.49   6.51   3.25
   YES
```

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L0012664         0   0.76350E-06  471724.9 3751519.4   531.7   3.49   6.51   3.25
YES
L0012665         0   0.76350E-06  471738.9 3751519.5   532.6   3.49   6.51   3.25
YES
L0012666         0   0.76350E-06  471752.9 3751519.6   533.6   3.49   6.51   3.25
YES
L0012667         0   0.76350E-06  471766.9 3751519.7   534.2   3.49   6.51   3.25
YES
L0012668         0   0.76350E-06  471780.9 3751519.8   534.7   3.49   6.51   3.25
YES
L0012669         0   0.76350E-06  471786.4 3751528.2   534.9   3.49   6.51   3.25
YES
L0012670         0   0.76350E-06  471786.3 3751542.2   534.9   3.49   6.51   3.25
YES
L0012671         0   0.76350E-06  471786.2 3751556.2   535.5   3.49   6.51   3.25
YES
L0012672         0   0.76350E-06  471786.0 3751570.2   536.4   3.49   6.51   3.25
YES
L0012673         0   0.76350E-06  471785.9 3751584.2   536.8   3.49   6.51   3.25
YES
L0012674         0   0.76350E-06  471785.8 3751598.2   536.8   3.49   6.51   3.25
YES
L0012675         0   0.76350E-06  471785.6 3751612.2   536.6   3.49   6.51   3.25
YES
L0012676         0   0.76350E-06  471785.5 3751626.2   536.2   3.49   6.51   3.25
YES
L0012677         0   0.76350E-06  471785.4 3751640.2   536.0   3.49   6.51   3.25
YES
L0012678         0   0.76350E-06  471785.3 3751654.2   536.4   3.49   6.51   3.25
YES
L0012679         0   0.76350E-06  471785.1 3751668.2   536.8   3.49   6.51   3.25
YES
L0012680         0   0.76350E-06  471785.0 3751682.2   536.8   3.49   6.51   3.25
YES
L0012681         0   0.76350E-06  471784.9 3751696.2   536.8   3.49   6.51   3.25
YES
L0012682         0   0.76350E-06  471784.7 3751710.2   536.8   3.49   6.51   3.25
YES
L0012683         0   0.76350E-06  471784.6 3751724.2   536.8   3.49   6.51   3.25
YES
L0012684         0   0.76350E-06  471784.5 3751738.2   536.8   3.49   6.51   3.25
YES
L0012685         0   0.76350E-06  471784.3 3751752.2   536.8   3.49   6.51   3.25
YES
L0012686         0   0.76350E-06  471784.2 3751766.2   537.1   3.49   6.51   3.25
YES
L0012687         0   0.76350E-06  471784.1 3751780.2   537.6   3.49   6.51   3.25
YES
L0012688         0   0.76350E-06  471783.9 3751794.2   537.6   3.49   6.51   3.25
YES
L0012689         0   0.76350E-06  471783.8 3751808.2   537.2   3.49   6.51   3.25
YES
L0012690         0   0.76350E-06  471783.7 3751822.2   537.0   3.49   6.51   3.25
YES
L0012691         0   0.76350E-06  471783.5 3751836.2   537.0   3.49   6.51   3.25
YES
L0012692         0   0.76350E-06  471783.4 3751850.2   536.9   3.49   6.51   3.25
YES
L0012693         0   0.76350E-06  471783.3 3751864.2   536.4   3.49   6.51   3.25
YES
L0012694         0   0.76350E-06  471783.2 3751878.2   535.9   3.49   6.51   3.25
YES
L0012695         0   0.12640E-06  473442.3 3752047.2   475.6   3.49   6.51   3.25
YES
L0012696         0   0.12640E-06  473440.2 3752061.0   476.0   3.49   6.51   3.25
YES
```

| SOURCE ID | 0 | 0.12640E-06 | 473438.1 | 3752074.8 | 476.0 | 3.49 | 6.51 | 3.25 |

L0012697   0   0.12640E-06 473438.1 3752074.8   476.0   3.49   6.51   3.25
  YES
L0012698   0   0.12640E-06 473435.9 3752088.7   475.8   3.49   6.51   3.25
  YES
L0012699   0   0.12640E-06 473432.4 3752102.2   475.4   3.49   6.51   3.25
  YES

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN	EMISSION RATE						
	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

L0012700   0   0.12640E-06 473428.4 3752115.6   475.0   3.49   6.51   3.25
  YES
L0012701   0   0.12640E-06 473424.3 3752129.0   474.8   3.49   6.51   3.25
  YES
L0012702   0   0.12640E-06 473420.2 3752142.4   474.7   3.49   6.51   3.25
  YES
L0012703   0   0.12640E-06 473416.0 3752155.7   474.8   3.49   6.51   3.25
  YES
L0012704   0   0.12640E-06 473409.2 3752167.9   475.0   3.49   6.51   3.25
  YES
L0012705   0   0.12640E-06 473402.4 3752180.2   475.2   3.49   6.51   3.25
  YES
L0012706   0   0.12640E-06 473395.5 3752192.4   475.5   3.49   6.51   3.25
  YES
L0012707   0   0.12640E-06 473388.5 3752204.5   475.7   3.49   6.51   3.25
  YES
L0012708   0   0.12640E-06 473381.6 3752216.7   475.6   3.49   6.51   3.25
  YES
L0012709   0   0.12640E-06 473373.1 3752227.8   475.4   3.49   6.51   3.25
  YES
L0012710   0   0.12640E-06 473364.5 3752238.9   475.5   3.49   6.51   3.25
  YES
L0012711   0   0.12640E-06 473356.0 3752250.0   475.9   3.49   6.51   3.25
  YES
L0012712   0   0.12640E-06 473347.5 3752261.1   476.0   3.49   6.51   3.25
  YES
L0012713   0   0.12640E-06 473338.9 3752272.2   476.0   3.49   6.51   3.25
  YES
L0012714   0   0.12640E-06 473330.4 3752283.3   476.0   3.49   6.51   3.25
  YES
L0012715   0   0.12640E-06 473321.9 3752294.4   476.0   3.49   6.51   3.25
  YES
L0012716   0   0.12640E-06 473313.3 3752305.5   475.7   3.49   6.51   3.25
  YES
L0012717   0   0.12640E-06 473304.8 3752316.6   475.3   3.49   6.51   3.25
  YES
L0012718   0   0.12640E-06 473296.3 3752327.7   475.0   3.49   6.51   3.25
  YES
L0012719   0   0.12640E-06 473287.7 3752338.8   475.0   3.49   6.51   3.25
  YES

```
L0012720          0    0.12640E-06  473279.2 3752349.8   475.1    3.49    6.51    3.25
YES
L0012721          0    0.12640E-06  473270.6 3752360.9   474.9    3.49    6.51    3.25
YES
L0012722          0    0.12640E-06  473262.0 3752372.0   474.5    3.49    6.51    3.25
YES
L0012723          0    0.12640E-06  473253.4 3752383.0   474.3    3.49    6.51    3.25
YES
L0012724          0    0.12640E-06  473244.8 3752394.1   474.2    3.49    6.51    3.25
YES
L0012725          0    0.12640E-06  473236.2 3752405.1   474.2    3.49    6.51    3.25
YES
L0012726          0    0.12640E-06  473227.6 3752416.2   474.1    3.49    6.51    3.25
YES
L0012727          0    0.12640E-06  473219.0 3752427.2   474.4    3.49    6.51    3.25
YES
L0012728          0    0.12640E-06  473210.5 3752438.3   474.6    3.49    6.51    3.25
YES
L0012729          0    0.12640E-06  473201.9 3752449.3   474.9    3.49    6.51    3.25
YES
L0012730          0    0.12640E-06  473193.3 3752460.4   475.2    3.49    6.51    3.25
YES
L0012731          0    0.12640E-06  473184.8 3752471.5   475.5    3.49    6.51    3.25
YES
L0012732          0    0.12640E-06  473176.3 3752482.6   475.6    3.49    6.51    3.25
YES
L0012733          0    0.12640E-06  473167.7 3752493.7   475.4    3.49    6.51    3.25
YES
L0012734          0    0.12640E-06  473159.2 3752504.8   475.1    3.49    6.51    3.25
YES
L0012735          0    0.12640E-06  473150.7 3752515.9   474.7    3.49    6.51    3.25
YES
L0012736          0    0.12640E-06  473142.1 3752527.0   474.3    3.49    6.51    3.25
YES
L0012737          0    0.12640E-06  473133.6 3752538.1   473.8    3.49    6.51    3.25
YES
L0012738          0    0.12640E-06  473125.1 3752549.2   473.3    3.49    6.51    3.25
YES
L0012739          0    0.12640E-06  473116.5 3752560.3   473.1    3.49    6.51    3.25
YES
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

```
            NUMBER EMISSION RATE                    BASE     RELEASE    INIT.    INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)    X        Y       ELEV.    HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
   ID      CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -


L0012740          0    0.12640E-06  473108.2 3752571.6   472.8    3.49    6.51    3.25
YES
L0012741          0    0.12640E-06  473100.4 3752583.2   472.3    3.49    6.51    3.25
YES
L0012742          0    0.12640E-06  473092.6 3752594.8   472.0    3.49    6.51    3.25
YES
```

L0012743	0	0.12640E-06	473085.3	3752606.8	472.0	3.49	6.51	3.25
YES								
L0012744	0	0.12640E-06	473078.3	3752618.9	472.0	3.49	6.51	3.25
YES								
L0012745	0	0.12640E-06	473071.3	3752631.0	471.9	3.49	6.51	3.25
YES								
L0012746	0	0.12640E-06	473064.2	3752643.1	471.7	3.49	6.51	3.25
YES								
L0012747	0	0.12640E-06	473057.2	3752655.2	471.8	3.49	6.51	3.25
YES								
L0012748	0	0.12640E-06	473050.2	3752667.3	472.0	3.49	6.51	3.25
YES								
L0012749	0	0.12640E-06	473045.4	3752680.5	472.0	3.49	6.51	3.25
YES								
L0012750	0	0.12640E-06	473040.9	3752693.7	471.8	3.49	6.51	3.25
YES								
L0012751	0	0.12640E-06	473036.4	3752707.0	471.6	3.49	6.51	3.25
YES								
L0012752	0	0.12640E-06	473031.9	3752720.2	471.5	3.49	6.51	3.25
YES								
L0012753	0	0.12640E-06	473027.4	3752733.5	471.3	3.49	6.51	3.25
YES								
L0012754	0	0.12640E-06	473024.1	3752747.1	471.0	3.49	6.51	3.25
YES								
L0012755	0	0.12640E-06	473020.8	3752760.7	471.0	3.49	6.51	3.25
YES								
L0012756	0	0.12640E-06	473017.6	3752774.3	471.0	3.49	6.51	3.25
YES								
L0012757	0	0.12640E-06	473014.4	3752787.9	470.6	3.49	6.51	3.25
YES								
L0012758	0	0.12640E-06	473012.3	3752801.7	470.2	3.49	6.51	3.25
YES								
L0012759	0	0.12640E-06	473011.8	3752815.7	470.0	3.49	6.51	3.25
YES								
L0012760	0	0.12640E-06	473011.3	3752829.7	470.0	3.49	6.51	3.25
YES								
L0012761	0	0.12640E-06	473010.8	3752843.7	469.8	3.49	6.51	3.25
YES								
L0012762	0	0.12640E-06	473010.3	3752857.7	469.3	3.49	6.51	3.25
YES								
L0012763	0	0.12640E-06	473009.9	3752871.7	469.0	3.49	6.51	3.25
YES								
L0012764	0	0.12640E-06	473009.7	3752885.7	469.0	3.49	6.51	3.25
YES								
L0012765	0	0.12640E-06	473009.5	3752899.7	469.0	3.49	6.51	3.25
YES								
L0012766	0	0.12640E-06	473009.3	3752913.7	469.2	3.49	6.51	3.25
YES								
L0012767	0	0.12640E-06	473009.1	3752927.7	469.3	3.49	6.51	3.25
YES								
L0012768	0	0.12640E-06	473008.9	3752941.7	469.2	3.49	6.51	3.25
YES								
L0012769	0	0.12640E-06	473008.7	3752955.7	469.0	3.49	6.51	3.25
YES								
L0012770	0	0.12640E-06	473008.6	3752969.7	469.0	3.49	6.51	3.25
YES								
L0012771	0	0.12640E-06	473008.4	3752983.7	469.0	3.49	6.51	3.25
YES								
L0012772	0	0.12640E-06	473008.2	3752997.7	469.1	3.49	6.51	3.25
YES								
L0012773	0	0.12640E-06	473008.0	3753011.7	469.3	3.49	6.51	3.25
YES								
L0012774	0	0.12640E-06	473007.8	3753025.7	469.4	3.49	6.51	3.25
YES								
L0012775	0	0.12640E-06	473007.6	3753039.7	469.4	3.49	6.51	3.25
YES								

```
L0012776          0    0.12640E-06  473007.4 3753053.7   469.4    3.49     6.51     3.25
  YES
L0012777          0    0.12640E-06  473007.3 3753067.7   469.4    3.49     6.51     3.25
  YES
L0012778          0    0.12640E-06  473007.1 3753081.7   469.5    3.49     6.51     3.25
  YES
L0012779          0    0.12640E-06  473006.8 3753095.6   469.8    3.49     6.51     3.25
  YES
```

⬛⬛ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0012780 YES	0	0.12640E-06	473006.1	3753109.6	469.9	3.49	6.51	3.25
L0012781 YES	0	0.12640E-06	473005.5	3753123.6	469.7	3.49	6.51	3.25
L0012782 YES	0	0.12640E-06	473004.9	3753137.6	469.5	3.49	6.51	3.25
L0012783 YES	0	0.12640E-06	473004.3	3753151.6	469.3	3.49	6.51	3.25
L0012784 YES	0	0.12640E-06	473003.6	3753165.6	469.0	3.49	6.51	3.25
L0012785 YES	0	0.12640E-06	473003.0	3753179.6	468.6	3.49	6.51	3.25
L0012786 YES	0	0.12640E-06	473002.4	3753193.6	468.1	3.49	6.51	3.25
L0012787 YES	0	0.12640E-06	473001.8	3753207.5	466.8	3.49	6.51	3.25
L0012788 YES	0	0.12640E-06	473001.1	3753221.5	465.2	3.49	6.51	3.25
L0012789 YES	0	0.12640E-06	473000.5	3753235.5	464.2	3.49	6.51	3.25
L0012790 YES	0	0.12640E-06	472999.9	3753249.5	463.4	3.49	6.51	3.25
L0012791 YES	0	0.12640E-06	472999.3	3753263.5	462.5	3.49	6.51	3.25
L0012792 YES	0	0.12640E-06	472998.6	3753277.5	461.6	3.49	6.51	3.25
L0012793 YES	0	0.12640E-06	472998.0	3753291.5	460.7	3.49	6.51	3.25
L0012794 YES	0	0.12640E-06	472997.4	3753305.4	459.7	3.49	6.51	3.25
L0012795 YES	0	0.12640E-06	472994.5	3753319.1	458.9	3.49	6.51	3.25
L0012796 YES	0	0.12640E-06	472991.4	3753332.8	457.9	3.49	6.51	3.25
L0012797 YES	0	0.12640E-06	472988.4	3753346.4	457.0	3.49	6.51	3.25
L0012798 YES	0	0.12640E-06	472985.3	3753360.1	457.0	3.49	6.51	3.25

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L0012799          0   0.12640E-06  472982.3 3753373.8   457.0      3.49      6.51     3.25
 YES
L0012800          0   0.12640E-06  472976.7 3753386.4   457.3      3.49      6.51     3.25
 YES
L0012801          0   0.12640E-06  472969.2 3753398.2   457.7      3.49      6.51     3.25
 YES
L0012802          0   0.12640E-06  472961.6 3753410.0   457.9      3.49      6.51     3.25
 YES
L0012803          0   0.12640E-06  472954.1 3753421.8   457.3      3.49      6.51     3.25
 YES
L0012804          0   0.12640E-06  472946.5 3753433.6   456.7      3.49      6.51     3.25
 YES
L0012805          0   0.12640E-06  472939.0 3753445.4   457.5      3.49      6.51     3.25
 YES
L0012806          0   0.12640E-06  472931.5 3753457.2   459.9      3.49      6.51     3.25
 YES
L0012807          0   0.12640E-06  472922.2 3753467.5   462.8      3.49      6.51     3.25
 YES
L0012808          0   0.12640E-06  472912.0 3753477.1   464.4      3.49      6.51     3.25
 YES
L0012809          0   0.12640E-06  472901.7 3753486.6   465.6      3.49      6.51     3.25
 YES
L0012810          0   0.12640E-06  472891.5 3753496.2   465.5      3.49      6.51     3.25
 YES
L0012811          0   0.12640E-06  472881.3 3753505.8   464.2      3.49      6.51     3.25
 YES
L0012812          0   0.12640E-06  472871.0 3753515.3   463.4      3.49      6.51     3.25
 YES
L0012813          0   0.12640E-06  472860.2 3753524.1   462.8      3.49      6.51     3.25
 YES
L0012814          0   0.12640E-06  472848.8 3753532.3   462.4      3.49      6.51     3.25
 YES
L0012815          0   0.12640E-06  472837.4 3753540.4   462.5      3.49      6.51     3.25
 YES
L0012816          0   0.12640E-06  472826.0 3753548.6   463.1      3.49      6.51     3.25
 YES
L0012817          0   0.12640E-06  472814.7 3753556.7   463.8      3.49      6.51     3.25
 YES
L0012818          0   0.12640E-06  472803.3 3753564.9   464.9      3.49      6.51     3.25
 YES
L0012819          0   0.12640E-06  472791.9 3753573.0   465.6      3.49      6.51     3.25
 YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                     *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE   SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - - -

L0012820   0   0.12640E-06 472780.5 3753581.2   465.8   3.49   6.51   3.25
 YES
L0012821   0   0.12640E-06 472769.1 3753589.3   465.6   3.49   6.51   3.25
 YES

```
L0012822        0   0.12640E-06  472757.8 3753597.5   465.0     3.49     6.51     3.25
YES
L0012823        0   0.12640E-06  472746.4 3753605.7   464.3     3.49     6.51     3.25
YES
L0012824        0   0.12640E-06  472735.8 3753614.8   463.6     3.49     6.51     3.25
YES
L0012825        0   0.12640E-06  472725.6 3753624.4   462.7     3.49     6.51     3.25
YES
L0012826        0   0.12640E-06  472715.4 3753634.0   461.4     3.49     6.51     3.25
YES
L0012827        0   0.12640E-06  472705.2 3753643.6   459.7     3.49     6.51     3.25
YES
L0012828        0   0.12640E-06  472695.0 3753653.2   459.3     3.49     6.51     3.25
YES
L0012829        0   0.12640E-06  472685.4 3753663.2   459.8     3.49     6.51     3.25
YES
L0012830        0   0.12640E-06  472678.1 3753675.2   460.3     3.49     6.51     3.25
YES
L0012831        0   0.12640E-06  472670.8 3753687.1   460.7     3.49     6.51     3.25
YES
L0012832        0   0.12640E-06  472663.5 3753699.0   461.9     3.49     6.51     3.25
YES
L0012833        0   0.12640E-06  472656.2 3753711.0   463.0     3.49     6.51     3.25
YES
L0012834        0   0.12640E-06  472649.6 3753723.3   463.2     3.49     6.51     3.25
YES
L0012835        0   0.12640E-06  472644.6 3753736.4   463.5     3.49     6.51     3.25
YES
L0012836        0   0.12640E-06  472639.6 3753749.4   463.8     3.49     6.51     3.25
YES
L0012837        0   0.12640E-06  472634.6 3753762.5   464.0     3.49     6.51     3.25
YES
L0012838        0   0.12640E-06  472629.5 3753775.6   464.0     3.49     6.51     3.25
YES
L0012839        0   0.12640E-06  472627.0 3753789.3   463.9     3.49     6.51     3.25
YES
L0012840        0   0.12640E-06  472625.1 3753803.2   463.7     3.49     6.51     3.25
YES
L0012841        0   0.12640E-06  472623.2 3753817.0   463.6     3.49     6.51     3.25
YES
L0012842        0   0.12640E-06  472621.2 3753830.9   463.4     3.49     6.51     3.25
YES
L0012843        0   0.12640E-06  472620.7 3753844.9   463.2     3.49     6.51     3.25
YES
L0012844        0   0.12640E-06  472620.4 3753858.9   463.0     3.49     6.51     3.25
YES
L0012845        0   0.12640E-06  472620.0 3753872.9   462.8     3.49     6.51     3.25
YES
L0012846        0   0.12640E-06  472619.7 3753886.9   462.7     3.49     6.51     3.25
YES
L0012847        0   0.12640E-06  472619.3 3753900.8   462.8     3.49     6.51     3.25
YES
L0012848        0   0.12640E-06  472619.0 3753914.8   463.0     3.49     6.51     3.25
YES
L0012849        0   0.12640E-06  472618.7 3753928.8   463.0     3.49     6.51     3.25
YES
L0012850        0   0.12640E-06  472618.3 3753942.8   463.0     3.49     6.51     3.25
YES
L0012851        0   0.12640E-06  472618.0 3753956.8   463.1     3.49     6.51     3.25
YES
L0012852        0   0.12640E-06  472617.6 3753970.8   463.3     3.49     6.51     3.25
YES
L0012853        0   0.12640E-06  472616.9 3753984.8   463.6     3.49     6.51     3.25
YES
L0012854        0   0.12640E-06  472616.3 3753998.8   463.9     3.49     6.51     3.25
YES
```

SOURCE ID	0	0.12640E-06	472615.6	3754012.8	464.1	3.49	6.51	3.25

L0012855   0   0.12640E-06 472615.6 3754012.8   464.1   3.49   6.51   3.25
YES
L0012856   0   0.12640E-06 472615.0 3754026.8   464.3   3.49   6.51   3.25
YES
L0012857   0   0.12640E-06 472614.3 3754040.8   464.6   3.49   6.51   3.25
YES
L0012858   0   0.12640E-06 472613.6 3754054.7   464.8   3.49   6.51   3.25
YES
L0012859   0   0.12640E-06 472613.0 3754068.7   465.0   3.49   6.51   3.25
YES

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

- -

L0012860   0   0.12640E-06 472612.3 3754082.7   465.2   3.49   6.51   3.25
YES
L0012861   0   0.12640E-06 472611.7 3754096.7   465.4   3.49   6.51   3.25
YES
L0012862   0   0.12640E-06 472611.0 3754110.7   465.4   3.49   6.51   3.25
YES
L0012863   0   0.12640E-06 472610.3 3754124.7   465.4   3.49   6.51   3.25
YES
L0012864   0   0.12640E-06 472609.7 3754138.6   465.3   3.49   6.51   3.25
YES
L0012865   0   0.12640E-06 472609.0 3754152.6   465.3   3.49   6.51   3.25
YES
L0012866   0   0.12640E-06 472608.4 3754166.6   465.3   3.49   6.51   3.25
YES
L0012867   0   0.12640E-06 472607.7 3754180.6   465.3   3.49   6.51   3.25
YES
L0012868   0   0.12640E-06 472607.0 3754194.6   465.0   3.49   6.51   3.25
YES
L0012869   0   0.12640E-06 472606.4 3754208.6   464.5   3.49   6.51   3.25
YES
L0012870   0   0.12640E-06 472605.7 3754222.5   464.2   3.49   6.51   3.25
YES
L0012871   0   0.12640E-06 472605.1 3754236.5   464.2   3.49   6.51   3.25
YES
L0012872   0   0.12640E-06 472604.4 3754250.5   464.0   3.49   6.51   3.25
YES
L0012873   0   0.12640E-06 472603.7 3754264.5   463.5   3.49   6.51   3.25
YES
L0012874   0   0.12640E-06 472603.1 3754278.5   463.2   3.49   6.51   3.25
YES
L0012875   0   0.12640E-06 472602.4 3754292.5   463.6   3.49   6.51   3.25
YES
L0012876   0   0.12640E-06 472601.8 3754306.5   464.0   3.49   6.51   3.25
YES
L0012877   0   0.12640E-06 472601.1 3754320.4   464.0   3.49   6.51   3.25
YES

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L0012878        0   0.12640E-06  472600.5 3754334.4   464.0    3.49    6.51    3.25
  YES
L0012879        0   0.12640E-06  472599.8 3754348.4   464.0    3.49    6.51    3.25
  YES
L0012880        0   0.12640E-06  472599.1 3754362.4   464.0    3.49    6.51    3.25
  YES
L0012881        0   0.12640E-06  472598.6 3754376.4   464.0    3.49    6.51    3.25
  YES
L0012882        0   0.12640E-06  472598.0 3754390.4   464.0    3.49    6.51    3.25
  YES
L0012883        0   0.12640E-06  472597.4 3754404.4   464.3    3.49    6.51    3.25
  YES
L0012884        0   0.12640E-06  472596.8 3754418.3   464.8    3.49    6.51    3.25
  YES
L0012885        0   0.12640E-06  472596.3 3754432.3   465.0    3.49    6.51    3.25
  YES
L0012886        0   0.12640E-06  472595.7 3754446.3   465.0    3.49    6.51    3.25
  YES
L0012887        0   0.12640E-06  472595.1 3754460.3   465.1    3.49    6.51    3.25
  YES
L0012888        0   0.12640E-06  472594.5 3754474.3   465.6    3.49    6.51    3.25
  YES
L0012889        0   0.12640E-06  472593.9 3754488.3   466.0    3.49    6.51    3.25
  YES
L0012890        0   0.12640E-06  472593.4 3754502.3   466.0    3.49    6.51    3.25
  YES
L0012891        0   0.12640E-06  472592.8 3754516.3   466.0    3.49    6.51    3.25
  YES
L0012892        0   0.12640E-06  472592.2 3754530.3   466.0    3.49    6.51    3.25
  YES
L0012893        0   0.12640E-06  472591.6 3754544.2   466.0    3.49    6.51    3.25
  YES
L0012894        0   0.12640E-06  472591.1 3754558.2   466.0    3.49    6.51    3.25
  YES
L0012895        0   0.12640E-06  472590.5 3754572.2   466.0    3.49    6.51    3.25
  YES
L0012896        0   0.12640E-06  472589.9 3754586.2   466.0    3.49    6.51    3.25
  YES
L0012897        0   0.12640E-06  472589.3 3754600.2   466.0    3.49    6.51    3.25
  YES
L0012898        0   0.12640E-06  472588.8 3754614.2   466.0    3.49    6.51    3.25
  YES
L0012899        0   0.12640E-06  472588.2 3754628.2   466.0    3.49    6.51    3.25
  YES
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** VOLUME SOURCE DATA ***

```
           NUMBER EMISSION RATE                  BASE    RELEASE    INIT.    INIT.
           URBAN  EMISSION RATE
 SOURCE    PART.  (GRAMS/SEC)    X        Y      ELEV.   HEIGHT     SY       SZ
 SOURCE  SCALAR VARY
   ID      CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0012900        0   0.12640E-06  472587.6 3754642.2   466.0    3.49    6.51    3.25
  YES
```

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L0012901        0   0.12640E-06  472587.0 3754656.1   466.0    3.49    6.51    3.25
YES
L0012902        0   0.25330E-06  473444.2 3752033.9   475.2    3.49    6.51    3.25
YES
L0012903        0   0.25330E-06  473445.7 3752019.9   475.1    3.49    6.51    3.25
YES
L0012904        0   0.25330E-06  473447.2 3752006.0   475.2    3.49    6.51    3.25
YES
L0012905        0   0.25330E-06  473447.3 3751992.1   475.3    3.49    6.51    3.25
YES
L0012906        0   0.25330E-06  473446.2 3751978.1   475.2    3.49    6.51    3.25
YES
L0012907        0   0.25330E-06  473445.1 3751964.2   475.3    3.49    6.51    3.25
YES
L0012908        0   0.25330E-06  473444.0 3751950.2   476.2    3.49    6.51    3.25
YES
L0012909        0   0.25330E-06  473442.8 3751936.2   477.0    3.49    6.51    3.25
YES
L0012910        0   0.25330E-06  473441.7 3751922.3   476.5    3.49    6.51    3.25
YES
L0012911        0   0.25330E-06  473439.7 3751908.5   476.1    3.49    6.51    3.25
YES
L0012912        0   0.25330E-06  473436.5 3751894.8   476.1    3.49    6.51    3.25
YES
L0012913        0   0.25330E-06  473433.4 3751881.2   476.2    3.49    6.51    3.25
YES
L0012914        0   0.25330E-06  473430.2 3751867.6   476.3    3.49    6.51    3.25
YES
L0012915        0   0.25330E-06  473427.0 3751853.9   476.4    3.49    6.51    3.25
YES
L0012916        0   0.25330E-06  473423.9 3751840.3   476.5    3.49    6.51    3.25
YES
L0012917        0   0.25330E-06  473420.7 3751826.7   476.6    3.49    6.51    3.25
YES
L0012918        0   0.25330E-06  473418.4 3751812.9   476.6    3.49    6.51    3.25
YES
L0012919        0   0.25330E-06  473416.7 3751799.0   476.3    3.49    6.51    3.25
YES
L0012920        0   0.25330E-06  473415.0 3751785.1   476.0    3.49    6.51    3.25
YES
L0012921        0   0.25330E-06  473413.3 3751771.2   476.4    3.49    6.51    3.25
YES
L0012922        0   0.25330E-06  473411.7 3751757.3   476.9    3.49    6.51    3.25
YES
L0012923        0   0.25330E-06  473412.4 3751743.3   477.4    3.49    6.51    3.25
YES
L0012924        0   0.25330E-06  473413.2 3751729.3   477.8    3.49    6.51    3.25
YES
L0012925        0   0.25330E-06  473413.9 3751715.3   478.2    3.49    6.51    3.25
YES
L0012926        0   0.25330E-06  473414.7 3751701.4   478.7    3.49    6.51    3.25
YES
L0012927        0   0.25330E-06  473416.9 3751687.5   479.1    3.49    6.51    3.25
YES
L0012928        0   0.25330E-06  473419.2 3751673.7   479.4    3.49    6.51    3.25
YES
L0012929        0   0.25330E-06  473421.4 3751659.9   479.8    3.49    6.51    3.25
YES
L0012930        0   0.25330E-06  473423.7 3751646.1   480.2    3.49    6.51    3.25
YES
L0012931        0   0.25330E-06  473427.0 3751632.5   480.4    3.49    6.51    3.25
YES
L0012932        0   0.25330E-06  473430.9 3751619.1   480.3    3.49    6.51    3.25
YES
L0012933        0   0.25330E-06  473434.9 3751605.6   480.2    3.49    6.51    3.25
YES
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L0012934          0    0.25330E-06   473439.9 3751592.6    480.0      3.49     6.51     3.25
   YES
L0012935          0    0.25330E-06   473445.3 3751579.7    480.0      3.49     6.51     3.25
   YES
L0012936          0    0.25330E-06   473450.7 3751566.8    480.0      3.49     6.51     3.25
   YES
L0012937          0    0.25330E-06   473456.1 3751553.8    480.0      3.49     6.51     3.25
   YES
L0012938          0    0.25330E-06   473461.5 3751540.9    480.1      3.49     6.51     3.25
   YES
L0012939          0    0.25330E-06   473466.9 3751528.0    480.1      3.49     6.51     3.25
   YES
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
SOURCE	URBAN PART.	EMISSION RATE (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE ID	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)								

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L0012940          0    0.25330E-06   473472.3 3751515.1    480.1      3.49     6.51     3.25
   YES
L0012941          0    0.25330E-06   473477.9 3751502.2    480.5      3.49     6.51     3.25
   YES
L0012942          0    0.25330E-06   473483.7 3751489.5    480.9      3.49     6.51     3.25
   YES
L0012943          0    0.25330E-06   473489.5 3751476.8    481.0      3.49     6.51     3.25
   YES
L0012944          0    0.25330E-06   473495.3 3751464.0    481.0      3.49     6.51     3.25
   YES
L0012945          0    0.25330E-06   473501.2 3751451.3    481.2      3.49     6.51     3.25
   YES
L0012946          0    0.25330E-06   473507.0 3751438.6    481.6      3.49     6.51     3.25
   YES
L0012947          0    0.25330E-06   473512.8 3751425.9    482.0      3.49     6.51     3.25
   YES
L0012948          0    0.25330E-06   473519.1 3751413.4    482.2      3.49     6.51     3.25
   YES
L0012949          0    0.25330E-06   473525.9 3751401.1    482.1      3.49     6.51     3.25
   YES
L0012950          0    0.25330E-06   473532.6 3751388.8    482.3      3.49     6.51     3.25
   YES
L0012951          0    0.25330E-06   473539.3 3751376.6    482.7      3.49     6.51     3.25
   YES
L0012952          0    0.25330E-06   473546.1 3751364.3    483.0      3.49     6.51     3.25
   YES
L0012953          0    0.25330E-06   473552.8 3751352.0    483.1      3.49     6.51     3.25
   YES
L0012954          0    0.25330E-06   473559.6 3751339.8    483.0      3.49     6.51     3.25
   YES
L0012955          0    0.25330E-06   473566.5 3751327.6    483.2      3.49     6.51     3.25
   YES
L0012956          0    0.25330E-06   473573.7 3751315.6    483.4      3.49     6.51     3.25
   YES
```

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L0012957        0   0.25330E-06  473580.8 3751303.5   483.3     3.49     6.51     3.25
YES
L0012958        0   0.25330E-06  473588.0 3751291.5   483.1     3.49     6.51     3.25
YES
L0012959        0   0.25330E-06  473595.2 3751279.5   483.0     3.49     6.51     3.25
YES
L0012960        0   0.25330E-06  473602.4 3751267.5   483.3     3.49     6.51     3.25
YES
L0012961        0   0.25330E-06  473609.5 3751255.4   483.7     3.49     6.51     3.25
YES
L0012962        0   0.25330E-06  473616.7 3751243.4   484.0     3.49     6.51     3.25
YES
L0012963        0   0.25330E-06  473623.8 3751231.4   483.7     3.49     6.51     3.25
YES
L0012964        0   0.25330E-06  473630.9 3751219.3   483.2     3.49     6.51     3.25
YES
L0012965        0   0.25330E-06  473637.9 3751207.2   483.0     3.49     6.51     3.25
YES
L0012966        0   0.25330E-06  473645.0 3751195.1   482.9     3.49     6.51     3.25
YES
L0012967        0   0.25330E-06  473652.1 3751183.0   482.9     3.49     6.51     3.25
YES
L0012968        0   0.25330E-06  473659.1 3751170.9   482.7     3.49     6.51     3.25
YES
L0012969        0   0.25330E-06  473666.2 3751158.8   482.4     3.49     6.51     3.25
YES
L0012970        0   0.25330E-06  473673.2 3751146.7   482.2     3.49     6.51     3.25
YES
L0012971        0   0.25330E-06  473680.3 3751134.6   482.0     3.49     6.51     3.25
YES
L0012972        0   0.25330E-06  473687.3 3751122.6   481.8     3.49     6.51     3.25
YES
L0012973        0   0.25330E-06  473694.4 3751110.5   481.8     3.49     6.51     3.25
YES
L0012974        0   0.25330E-06  473701.5 3751098.4   482.0     3.49     6.51     3.25
YES
L0012975        0   0.25330E-06  473708.5 3751086.3   482.0     3.49     6.51     3.25
YES
L0012976        0   0.25330E-06  473715.6 3751074.2   481.9     3.49     6.51     3.25
YES
L0012977        0   0.25330E-06  473722.6 3751062.1   481.9     3.49     6.51     3.25
YES
L0012978        0   0.25330E-06  473729.7 3751050.0   481.6     3.49     6.51     3.25
YES
L0012979        0   0.25330E-06  473736.7 3751037.9   481.1     3.49     6.51     3.25
YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
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L0012980	0	0.25330E-06	473743.8	3751025.8	481.0	3.49	6.51	3.25
YES								
L0012981	0	0.25330E-06	473750.9	3751013.7	481.0	3.49	6.51	3.25
YES								
L0012982	0	0.25330E-06	473757.9	3751001.6	480.9	3.49	6.51	3.25
YES								
L0012983	0	0.25330E-06	473765.0	3750989.5	480.5	3.49	6.51	3.25
YES								
L0012984	0	0.25330E-06	473772.0	3750977.4	480.0	3.49	6.51	3.25
YES								
L0012985	0	0.25330E-06	473779.0	3750965.3	480.0	3.49	6.51	3.25
YES								
L0012986	0	0.25330E-06	473786.1	3750953.2	480.0	3.49	6.51	3.25
YES								
L0012987	0	0.25330E-06	473793.1	3750941.1	480.0	3.49	6.51	3.25
YES								
L0012988	0	0.25330E-06	473800.2	3750929.0	480.0	3.49	6.51	3.25
YES								
L0012989	0	0.25330E-06	473807.2	3750916.9	479.8	3.49	6.51	3.25
YES								
L0012990	0	0.25330E-06	473814.2	3750904.8	479.3	3.49	6.51	3.25
YES								
L0012991	0	0.25330E-06	473821.3	3750892.7	479.1	3.49	6.51	3.25
YES								
L0012992	0	0.25330E-06	473828.3	3750880.6	479.0	3.49	6.51	3.25
YES								
L0012993	0	0.25330E-06	473835.3	3750868.5	478.8	3.49	6.51	3.25
YES								
L0012994	0	0.25330E-06	473842.4	3750856.4	478.6	3.49	6.51	3.25
YES								
L0012995	0	0.25330E-06	473849.4	3750844.3	478.3	3.49	6.51	3.25
YES								
L0012996	0	0.25330E-06	473856.5	3750832.2	478.1	3.49	6.51	3.25
YES								
L0012997	0	0.25330E-06	473863.5	3750820.1	477.9	3.49	6.51	3.25
YES								
L0012998	0	0.25330E-06	473870.5	3750808.0	477.6	3.49	6.51	3.25
YES								
L0012999	0	0.25330E-06	473877.6	3750795.9	477.4	3.49	6.51	3.25
YES								
L0013000	0	0.25330E-06	473884.6	3750783.8	477.1	3.49	6.51	3.25
YES								
L0013001	0	0.25330E-06	473891.6	3750771.7	476.9	3.49	6.51	3.25
YES								
L0013002	0	0.25330E-06	473898.7	3750759.6	476.7	3.49	6.51	3.25
YES								
L0013003	0	0.25330E-06	473905.7	3750747.5	476.5	3.49	6.51	3.25
YES								
L0013004	0	0.25330E-06	473912.8	3750735.4	476.2	3.49	6.51	3.25
YES								
L0013005	0	0.25330E-06	473919.7	3750723.2	476.0	3.49	6.51	3.25
YES								
L0013006	0	0.25330E-06	473926.7	3750711.1	475.8	3.49	6.51	3.25
YES								
L0013007	0	0.25330E-06	473933.6	3750698.9	475.4	3.49	6.51	3.25
YES								
L0013008	0	0.25330E-06	473940.6	3750686.8	475.1	3.49	6.51	3.25
YES								
L0013009	0	0.25330E-06	473947.5	3750674.7	475.1	3.49	6.51	3.25
YES								
L0013010	0	0.25330E-06	473954.5	3750662.5	475.4	3.49	6.51	3.25
YES								
L0013011	0	0.25330E-06	473961.5	3750650.4	475.5	3.49	6.51	3.25
YES								
L0013012	0	0.25330E-06	473968.4	3750638.2	475.6	3.49	6.51	3.25
YES								

| SOURCE ID | 0 | 0.25330E-06 | 473975.4 | 3750626.1 | 475.7 | 3.49 | 6.51 | 3.25 |

L0013013   0   0.25330E-06   473975.4 3750626.1   475.7   3.49   6.51   3.25
   YES
L0013014   0   0.25330E-06   473982.3 3750613.9   475.9   3.49   6.51   3.25
   YES
L0013015   0   0.25330E-06   473989.3 3750601.8   475.8   3.49   6.51   3.25
   YES
L0013016   0   0.25330E-06   473996.2 3750589.6   475.9   3.49   6.51   3.25
   YES
L0013017   0   0.25330E-06   474003.2 3750577.5   476.0   3.49   6.51   3.25
   YES
L0013018   0   0.25330E-06   474010.2 3750565.3   476.0   3.49   6.51   3.25
   YES
L0013019   0   0.25330E-06   474017.1 3750553.2   476.0   3.49   6.51   3.25
   YES

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

           NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
           URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE   SCALAR VARY
   ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - -

L0013020   0   0.25330E-06   474024.1 3750541.0   476.0   3.49   6.51   3.25
   YES
L0013021   0   0.25330E-06   474031.0 3750528.9   476.0   3.49   6.51   3.25
   YES
L0013022   0   0.25330E-06   474036.0 3750515.8   476.0   3.49   6.51   3.25
   YES
L0013023   0   0.25330E-06   474040.9 3750502.7   476.0   3.49   6.51   3.25
   YES
L0013024   0   0.25330E-06   474045.7 3750489.5   476.0   3.49   6.51   3.25
   YES
L0013025   0   0.25330E-06   474050.5 3750476.4   476.0   3.49   6.51   3.25
   YES
L0013026   0   0.25330E-06   474055.4 3750463.2   476.0   3.49   6.51   3.25
   YES
L0013027   0   0.25330E-06   474060.2 3750450.1   476.0   3.49   6.51   3.25
   YES
L0013028   0   0.25330E-06   474065.0 3750437.0   476.0   3.49   6.51   3.25
   YES
L0013029   0   0.25330E-06   474069.9 3750423.8   476.0   3.49   6.51   3.25
   YES
L0013030   0   0.25330E-06   474074.5 3750410.6   475.8   3.49   6.51   3.25
   YES
L0013031   0   0.25330E-06   474077.0 3750396.9   475.8   3.49   6.51   3.25
   YES
L0013032   0   0.25330E-06   474079.5 3750383.1   475.7   3.49   6.51   3.25
   YES
L0013033   0   0.25330E-06   474082.0 3750369.3   475.6   3.49   6.51   3.25
   YES
L0013034   0   0.25330E-06   474084.4 3750355.5   475.5   3.49   6.51   3.25
   YES
L0013035   0   0.25330E-06   474086.9 3750341.7   475.4   3.49   6.51   3.25
   YES

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L0013036        0    0.25330E-06   474089.4 3750328.0    475.1      3.49       6.51       3.25
     YES
L0013037        0    0.25330E-06   474091.9 3750314.2    475.0      3.49       6.51       3.25
     YES
L0013038        0    0.25330E-06   474094.4 3750300.4    475.0      3.49       6.51       3.25
     YES
L0013039        0    0.25330E-06   474096.8 3750286.6    475.0      3.49       6.51       3.25
     YES
L0013040        0    0.25330E-06   474097.8 3750272.7    475.0      3.49       6.51       3.25
     YES
L0013041        0    0.25330E-06   474098.0 3750258.7    475.0      3.49       6.51       3.25
     YES
L0013042        0    0.25330E-06   474098.2 3750244.7    475.0      3.49       6.51       3.25
     YES
L0013043        0    0.25330E-06   474098.4 3750230.7    475.0      3.49       6.51       3.25
     YES
L0013044        0    0.25330E-06   474098.6 3750216.7    475.0      3.49       6.51       3.25
     YES
L0013045        0    0.25330E-06   474098.8 3750202.7    475.0      3.49       6.51       3.25
     YES
L0013046        0    0.25330E-06   474099.0 3750188.7    475.0      3.49       6.51       3.25
     YES
L0013047        0    0.25330E-06   474099.3 3750174.7    475.0      3.49       6.51       3.25
     YES
L0013048        0    0.25330E-06   474099.5 3750160.7    475.2      3.49       6.51       3.25
     YES
L0013049        0    0.25330E-06   474099.7 3750146.7    475.7      3.49       6.51       3.25
     YES
L0013050        0    0.25330E-06   474099.9 3750132.7    476.0      3.49       6.51       3.25
     YES
L0013051        0    0.25330E-06   474100.1 3750118.7    476.0      3.49       6.51       3.25
     YES
L0013052        0    0.25330E-06   474100.3 3750104.7    476.1      3.49       6.51       3.25
     YES
L0013053        0    0.25330E-06   474100.5 3750090.7    476.5      3.49       6.51       3.25
     YES
L0013054        0    0.25330E-06   474100.7 3750076.7    477.0      3.49       6.51       3.25
     YES
L0013055        0    0.25330E-06   474100.9 3750062.7    477.0      3.49       6.51       3.25
     YES
L0013056        0    0.25330E-06   474101.1 3750048.7    477.0      3.49       6.51       3.25
     YES
L0013057        0    0.25330E-06   474101.3 3750034.7    477.0      3.49       6.51       3.25
     YES
L0013058        0    0.25330E-06   474101.5 3750020.7    477.0      3.49       6.51       3.25
     YES
L0013059        0    0.25330E-06   474101.7 3750006.7    477.0      3.49       6.51       3.25
     YES
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN   EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE   SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
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```
L0013060          0   0.25330E-06   474102.2 3749992.7    477.0    3.49    6.51    3.25
YES
L0013061          0   0.25330E-06   474102.8 3749978.8    477.2    3.49    6.51    3.25
YES
L0013062          0   0.25330E-06   474103.3 3749964.8    477.6    3.49    6.51    3.25
YES
L0013063          0   0.25330E-06   474103.9 3749950.8    477.7    3.49    6.51    3.25
YES
L0013064          0   0.25330E-06   474104.4 3749936.8    477.3    3.49    6.51    3.25
YES
L0013065          0   0.25330E-06   474105.0 3749922.8    477.1    3.49    6.51    3.25
YES
L0013066          0   0.25330E-06   474105.5 3749908.8    477.5    3.49    6.51    3.25
YES
L0013067          0   0.25330E-06   474106.1 3749894.8    477.8    3.49    6.51    3.25
YES
L0013068          0   0.25330E-06   474106.7 3749880.8    477.8    3.49    6.51    3.25
YES
L0013069          0   0.25330E-06   474107.2 3749866.8    477.8    3.49    6.51    3.25
YES
L0013070          0   0.25330E-06   474107.8 3749852.9    477.9    3.49    6.51    3.25
YES
L0013071          0   0.25330E-06   474108.3 3749838.9    478.0    3.49    6.51    3.25
YES
L0013072          0   0.25330E-06   474108.9 3749824.9    478.3    3.49    6.51    3.25
YES
L0013073          0   0.25330E-06   474109.4 3749810.9    478.6    3.49    6.51    3.25
YES
L0013074          0   0.25330E-06   474110.0 3749796.9    478.7    3.49    6.51    3.25
YES
L0013075          0   0.25330E-06   474110.5 3749782.9    478.6    3.49    6.51    3.25
YES
L0013076          0   0.25330E-06   474111.1 3749768.9    478.7    3.49    6.51    3.25
YES
L0013077          0   0.25330E-06   474117.4 3749761.0    478.7    3.49    6.51    3.25
YES
L0013078          0   0.25330E-06   474131.4 3749761.0    478.5    3.49    6.51    3.25
YES
L0013079          0   0.25330E-06   474145.4 3749761.1    478.2    3.49    6.51    3.25
YES
L0013080          0   0.25330E-06   474159.4 3749761.1    478.0    3.49    6.51    3.25
YES
L0013081          0   0.25330E-06   474173.4 3749761.1    477.5    3.49    6.51    3.25
YES
L0013082          0   0.25330E-06   474187.4 3749761.2    477.1    3.49    6.51    3.25
YES
L0013083          0   0.25330E-06   474201.4 3749761.2    477.0    3.49    6.51    3.25
YES
L0013084          0   0.25330E-06   474215.4 3749761.3    477.0    3.49    6.51    3.25
YES
L0013085          0   0.25330E-06   474229.4 3749761.3    476.8    3.49    6.51    3.25
YES
L0013086          0   0.25330E-06   474243.4 3749761.3    476.6    3.49    6.51    3.25
YES
L0013087          0   0.25330E-06   474257.4 3749761.4    476.4    3.49    6.51    3.25
YES
L0013088          0   0.25330E-06   474271.4 3749761.4    476.1    3.49    6.51    3.25
YES
L0013089          0   0.25330E-06   474285.4 3749761.5    476.0    3.49    6.51    3.25
YES
L0013090          0   0.25330E-06   474299.4 3749761.5    476.0    3.49    6.51    3.25
YES
L0013091          0   0.25330E-06   474313.4 3749761.5    475.9    3.49    6.51    3.25
YES
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L0013092        0    0.25330E-06   474327.4 3749761.6    475.4     3.49     6.51     3.25
   YES
L0013093        0    0.25330E-06   474341.4 3749761.6    475.0     3.49     6.51     3.25
   YES
L0013094        0    0.25330E-06   474355.4 3749761.7    475.0     3.49     6.51     3.25
   YES
L0013095        0    0.25330E-06   474369.4 3749761.7    475.0     3.49     6.51     3.25
   YES
L0013096        0    0.25330E-06   474383.4 3749761.7    474.5     3.49     6.51     3.25
   YES
L0013097        0    0.25330E-06   474397.4 3749761.8    474.1     3.49     6.51     3.25
   YES
L0013098        0    0.25330E-06   474411.4 3749761.8    474.0     3.49     6.51     3.25
   YES
L0013099        0    0.25330E-06   474425.4 3749761.8    474.0     3.49     6.51     3.25
   YES
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▄▄ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

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L0013100        0    0.25330E-06   474439.4 3749761.9    473.7     3.49     6.51     3.25
   YES
L0013101        0    0.25330E-06   474453.4 3749761.9    473.2     3.49     6.51     3.25
   YES
L0013102        0    0.25330E-06   474467.4 3749762.0    473.0     3.49     6.51     3.25
   YES
L0013103        0    0.25330E-06   474481.4 3749762.0    473.0     3.49     6.51     3.25
   YES
L0013104        0    0.25330E-06   474495.4 3749762.0    472.8     3.49     6.51     3.25
   YES
L0013105        0    0.25330E-06   474509.4 3749762.1    472.3     3.49     6.51     3.25
   YES
L0013106        0    0.25330E-06   474523.4 3749762.1    471.9     3.49     6.51     3.25
   YES
L0013107        0    0.25330E-06   474537.4 3749762.2    471.4     3.49     6.51     3.25
   YES
L0013108        0    0.25330E-06   474551.4 3749762.2    470.9     3.49     6.51     3.25
   YES
L0013109        0    0.25330E-06   474565.4 3749762.2    470.5     3.49     6.51     3.25
   YES
L0013110        0    0.25330E-06   474579.4 3749762.3    470.0     3.49     6.51     3.25
   YES
L0013111        0    0.25330E-06   474593.4 3749762.3    470.0     3.49     6.51     3.25
   YES
L0013112        0    0.25330E-06   474607.4 3749762.4    470.0     3.49     6.51     3.25
   YES
L0013113        0    0.25330E-06   474621.4 3749762.4    469.8     3.49     6.51     3.25
   YES
L0013114        0    0.25330E-06   474635.4 3749762.4    469.6     3.49     6.51     3.25
   YES
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L0013115           0   0.25330E-06   474649.4 3749762.5    469.4     3.49     6.51     3.25
  YES
L0013116           0   0.25330E-06   474663.4 3749762.5    469.1     3.49     6.51     3.25
  YES
L0013117           0   0.25330E-06   474677.4 3749762.5    469.0     3.49     6.51     3.25
  YES
L0013118           0   0.25330E-06   474691.4 3749762.5    469.0     3.49     6.51     3.25
  YES
L0013119           0   0.25330E-06   474705.4 3749761.7    469.0     3.49     6.51     3.25
  YES
L0013120           0   0.25330E-06   474719.4 3749760.8    469.0     3.49     6.51     3.25
  YES
L0013121           0   0.25330E-06   474733.4 3749760.0    469.0     3.49     6.51     3.25
  YES
L0013122           0   0.25330E-06   474747.3 3749759.2    469.0     3.49     6.51     3.25
  YES
L0013123           0   0.25330E-06   474761.3 3749758.3    469.0     3.49     6.51     3.25
  YES
L0013124           0   0.25330E-06   474775.3 3749757.5    469.0     3.49     6.51     3.25
  YES
L0013125           0   0.25330E-06   474789.3 3749756.6    469.0     3.49     6.51     3.25
  YES
L0013126           0   0.25330E-06   474803.2 3749755.8    468.9     3.49     6.51     3.25
  YES
L0013127           0   0.25330E-06   474817.2 3749754.9    468.8     3.49     6.51     3.25
  YES
L0013128           0   0.25330E-06   474831.2 3749754.1    468.5     3.49     6.51     3.25
  YES
L0013129           0   0.25330E-06   474845.2 3749753.2    468.1     3.49     6.51     3.25
  YES
L0013130           0   0.25330E-06   474859.1 3749752.4    468.0     3.49     6.51     3.25
  YES
L0013131           0   0.25330E-06   474873.1 3749751.6    468.0     3.49     6.51     3.25
  YES
L0013132           0   0.25330E-06   474887.0 3749750.2    468.0     3.49     6.51     3.25
  YES
L0013133           0   0.25330E-06   474900.9 3749748.5    468.0     3.49     6.51     3.25
  YES
L0013134           0   0.25330E-06   474914.8 3749746.9    468.0     3.49     6.51     3.25
  YES
L0013135           0   0.25330E-06   474928.7 3749745.3    468.0     3.49     6.51     3.25
  YES
L0013136           0   0.25330E-06   474942.7 3749743.6    467.9     3.49     6.51     3.25
  YES
L0013137           0   0.25330E-06   474956.6 3749742.0    467.5     3.49     6.51     3.25
  YES
L0013138           0   0.25330E-06   474970.5 3749740.4    467.2     3.49     6.51     3.25
  YES
L0013139           0   0.25330E-06   474984.4 3749738.7    467.1     3.49     6.51     3.25
  YES
```

■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

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     (METERS)              BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

L0013140        0   0.25330E-06  474998.3 3749737.1   467.0   3.49    6.51    3.25
YES
L0013141        0   0.25330E-06  475012.1 3749735.0   467.0   3.49    6.51    3.25
YES
L0013142        0   0.25330E-06  475025.9 3749732.7   467.0   3.49    6.51    3.25
YES
L0013143        0   0.25330E-06  475039.7 3749730.5   467.0   3.49    6.51    3.25
YES
L0013144        0   0.25330E-06  475053.6 3749728.2   467.0   3.49    6.51    3.25
YES
L0013145        0   0.25330E-06  475067.4 3749726.0   467.0   3.49    6.51    3.25
YES
L0013146        0   0.25330E-06  475081.2 3749723.7   467.0   3.49    6.51    3.25
YES
L0013147        0   0.25330E-06  475095.0 3749721.5   467.0   3.49    6.51    3.25
YES
L0013148        0   0.25330E-06  475107.1 3749715.2   467.0   3.49    6.51    3.25
YES
L0013149        0   0.25330E-06  475118.2 3749706.7   467.0   3.49    6.51    3.25
YES
L0013150        0   0.25330E-06  475129.2 3749698.1   467.0   3.49    6.51    3.25
YES
L0013151        0   0.25330E-06  475140.3 3749689.5   467.0   3.49    6.51    3.25
YES
L0013152        0   0.25330E-06  475151.4 3749680.9   466.9   3.49    6.51    3.25
YES
L0013153        0   0.25330E-06  475162.4 3749672.4   466.6   3.49    6.51    3.25
YES
L0013154        0   0.25330E-06  475173.5 3749663.8   466.2   3.49    6.51    3.25
YES
L0013155        0   0.25330E-06  475184.6 3749655.2   466.0   3.49    6.51    3.25
YES
L0013156        0   0.25330E-06  475195.6 3749646.6   466.0   3.49    6.51    3.25
YES
L0013157        0   0.25330E-06  475200.3 3749633.7   466.0   3.49    6.51    3.25
YES
L0013158        0   0.25330E-06  475204.1 3749620.2   466.0   3.49    6.51    3.25
YES
L0013159        0   0.25330E-06  475207.9 3749606.8   466.0   3.49    6.51    3.25
YES
L0013160        0   0.25330E-06  475211.7 3749593.3   466.0   3.49    6.51    3.25
YES
L0013161        0   0.25330E-06  475215.5 3749579.8   466.0   3.49    6.51    3.25
YES
L0013162        0   0.25330E-06  475219.3 3749566.4   466.0   3.49    6.51    3.25
YES
L0013163        0   0.25330E-06  475221.1 3749552.6   466.0   3.49    6.51    3.25
YES
L0013164        0   0.21550E-05  473450.3 3752041.6   475.3   3.49    6.51    3.25
YES
L0013165        0   0.21550E-05  473464.2 3752043.0   475.1   3.49    6.51    3.25
YES
L0013166        0   0.21550E-05  473478.1 3752044.3   475.0   3.49    6.51    3.25
YES
L0013167        0   0.21550E-05  473492.1 3752045.7   475.0   3.49    6.51    3.25
YES
L0013168        0   0.21550E-05  473506.0 3752047.0   474.9   3.49    6.51    3.25
YES
L0013169        0   0.21550E-05  473519.9 3752048.4   474.5   3.49    6.51    3.25
YES
L0013170        0   0.21550E-05  473533.9 3752049.7   474.2   3.49    6.51    3.25
YES
```

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0013171	0	0.21550E-05	473547.8	3752050.8	474.1	3.49	6.51	3.25
YES
L0013172	0	0.21550E-05	473561.8	3752052.0	473.9	3.49	6.51	3.25
YES
L0013173	0	0.21550E-05	473575.7	3752053.1	473.5	3.49	6.51	3.25
YES
L0013174	0	0.21550E-05	473589.7	3752054.3	473.0	3.49	6.51	3.25
YES
L0013175	0	0.21550E-05	473603.6	3752055.4	472.6	3.49	6.51	3.25
YES
L0013176	0	0.21550E-05	473617.6	3752056.6	472.1	3.49	6.51	3.25
YES
L0013177	0	0.21550E-05	473631.5	3752057.7	472.4	3.49	6.51	3.25
YES
L0013178	0	0.21550E-05	473645.5	3752058.9	472.8	3.49	6.51	3.25
YES
L0013179	0	0.21550E-05	473659.5	3752059.5	472.9	3.49	6.51	3.25
YES

🔲 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/25/23
*** AERMET - VERSION 16216 ***
*** *** 11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0013180	0	0.21550E-05	473673.5	3752059.6	473.0	3.49	6.51	3.25
YES
L0013181	0	0.21550E-05	473687.5	3752059.7	473.0	3.49	6.51	3.25
YES
L0013182	0	0.21550E-05	473701.5	3752059.8	473.0	3.49	6.51	3.25
YES
L0013183	0	0.21550E-05	473715.5	3752059.9	473.0	3.49	6.51	3.25
YES
L0013184	0	0.21550E-05	473729.5	3752060.0	472.9	3.49	6.51	3.25
YES
L0013185	0	0.21550E-05	473743.5	3752060.1	472.9	3.49	6.51	3.25
YES
L0013186	0	0.21550E-05	473757.5	3752060.2	472.9	3.49	6.51	3.25
YES
L0013187	0	0.21550E-05	473771.4	3752060.9	472.9	3.49	6.51	3.25
YES
L0013188	0	0.21550E-05	473785.3	3752062.6	472.8	3.49	6.51	3.25
YES
L0013189	0	0.21550E-05	473799.2	3752064.3	472.7	3.49	6.51	3.25
YES
L0013190	0	0.21550E-05	473813.1	3752066.0	472.7	3.49	6.51	3.25
YES
L0013191	0	0.21550E-05	473827.0	3752067.7	472.6	3.49	6.51	3.25
YES
L0013192	0	0.21550E-05	473840.9	3752069.4	472.7	3.49	6.51	3.25
YES
L0013193	0	0.21550E-05	473854.8	3752071.3	472.9	3.49	6.51	3.25
YES

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L0013194        0    0.21550E-05   473868.3 3752075.0    472.8      3.49     6.51      3.25
   YES
L0013195        0    0.21550E-05   473881.8 3752078.7    472.5      3.49     6.51      3.25
   YES
L0013196        0    0.21550E-05   473895.3 3752082.4    472.1      3.49     6.51      3.25
   YES
L0013197        0    0.21550E-05   473908.8 3752086.1    472.0      3.49     6.51      3.25
   YES
L0013198        0    0.21550E-05   473922.3 3752089.6    471.8      3.49     6.51      3.25
   YES
L0013199        0    0.21550E-05   473936.2 3752091.7    471.4      3.49     6.51      3.25
   YES
L0013200        0    0.21550E-05   473950.0 3752093.9    471.0      3.49     6.51      3.25
   YES
L0013201        0    0.21550E-05   473963.8 3752096.0    470.9      3.49     6.51      3.25
   YES
L0013202        0    0.21550E-05   473977.7 3752098.1    470.6      3.49     6.51      3.25
   YES
L0013203        0    0.21550E-05   473991.5 3752100.2    470.3      3.49     6.51      3.25
   YES
L0013204        0    0.21550E-05   474005.3 3752102.4    470.1      3.49     6.51      3.25
   YES
L0013205        0    0.21550E-05   474019.2 3752104.5    470.0      3.49     6.51      3.25
   YES
L0013206        0    0.21550E-05   474033.0 3752106.6    470.0      3.49     6.51      3.25
   YES
L0013207        0    0.21550E-05   474046.9 3752108.7    470.0      3.49     6.51      3.25
   YES
L0013208        0    0.21550E-05   474060.7 3752110.9    470.0      3.49     6.51      3.25
   YES
L0013209        0    0.21550E-05   474074.5 3752113.0    470.0      3.49     6.51      3.25
   YES
L0013210        0    0.21550E-05   474088.4 3752115.1    470.0      3.49     6.51      3.25
   YES
L0013211        0    0.21550E-05   474102.2 3752117.2    470.0      3.49     6.51      3.25
   YES
L0013212        0    0.21550E-05   474116.1 3752119.4    470.0      3.49     6.51      3.25
   YES
L0013213        0    0.21550E-05   474129.9 3752121.5    470.0      3.49     6.51      3.25
   YES
L0013214        0    0.21550E-05   474143.7 3752123.6    470.0      3.49     6.51      3.25
   YES
L0013215        0    0.21550E-05   474157.6 3752125.7    470.0      3.49     6.51      3.25
   YES
L0013216        0    0.21550E-05   474171.4 3752127.9    470.0      3.49     6.51      3.25
   YES
L0013217        0    0.21550E-05   474185.2 3752130.1    470.0      3.49     6.51      3.25
   YES
L0013218        0    0.21550E-05   474199.0 3752132.4    470.0      3.49     6.51      3.25
   YES
L0013219        0    0.21550E-05   474212.8 3752134.7    470.0      3.49     6.51      3.25
   YES
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE	NUMBER PART.	EMISSION RATE (GRAMS/SEC) URBAN EMISSION RATE	X	Y	BASE ELEV.	RELEASE HEIGHT	INIT. SY	INIT. SZ

```
   SOURCE   SCALAR VARY
     ID       CATS.                      (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)              BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - -

L0013220         0   0.21550E-05  474226.7 3752137.0   470.0     3.49      6.51      3.25
YES
L0013221         0   0.21550E-05  474240.5 3752139.3   470.0     3.49      6.51      3.25
YES
L0013222         0   0.21550E-05  474254.3 3752141.6   470.2     3.49      6.51      3.25
YES
L0013223         0   0.21550E-05  474268.1 3752143.9   470.6     3.49      6.51      3.25
YES
L0013224         0   0.75610E-07  474282.5 3752146.3   471.1     3.49      6.51      3.25
YES
L0013225         0   0.75610E-07  474296.3 3752149.0   471.5     3.49      6.51      3.25
YES
L0013226         0   0.75610E-07  474310.0 3752151.6   471.8     3.49      6.51      3.25
YES
L0013227         0   0.75610E-07  474323.7 3752154.3   472.1     3.49      6.51      3.25
YES
L0013228         0   0.75610E-07  474337.5 3752157.0   472.3     3.49      6.51      3.25
YES
L0013229         0   0.75610E-07  474351.2 3752159.7   472.1     3.49      6.51      3.25
YES
L0013230         0   0.75610E-07  474365.0 3752162.4   471.9     3.49      6.51      3.25
YES
L0013231         0   0.75610E-07  474378.7 3752165.0   471.9     3.49      6.51      3.25
YES
L0013232         0   0.75610E-07  474392.5 3752167.7   472.1     3.49      6.51      3.25
YES
L0013233         0   0.75610E-07  474406.2 3752170.4   472.2     3.49      6.51      3.25
YES
L0013234         0   0.75610E-07  474419.9 3752173.1   472.1     3.49      6.51      3.25
YES
L0013235         0   0.75610E-07  474433.7 3752175.8   472.0     3.49      6.51      3.25
YES
L0013236         0   0.75610E-07  474447.4 3752178.5   472.0     3.49      6.51      3.25
YES
L0013237         0   0.75610E-07  474461.2 3752181.1   472.0     3.49      6.51      3.25
YES
L0013238         0   0.75610E-07  474474.9 3752183.8   472.0     3.49      6.51      3.25
YES
L0013239         0   0.75610E-07  474488.6 3752186.5   472.0     3.49      6.51      3.25
YES
L0013240         0   0.75610E-07  474502.4 3752189.2   472.0     3.49      6.51      3.25
YES
L0013241         0   0.75610E-07  474516.1 3752191.9   472.0     3.49      6.51      3.25
YES
L0013242         0   0.75610E-07  474529.9 3752194.5   472.0     3.49      6.51      3.25
YES
L0013243         0   0.75610E-07  474543.6 3752197.2   472.0     3.49      6.51      3.25
YES
L0013244         0   0.75610E-07  474557.3 3752199.9   472.0     3.49      6.51      3.25
YES
L0013245         0   0.75610E-07  474571.1 3752202.6   472.0     3.49      6.51      3.25
YES
L0013246         0   0.75610E-07  474584.8 3752205.3   472.0     3.49      6.51      3.25
YES
L0013247         0   0.75610E-07  474598.6 3752207.9   472.0     3.49      6.51      3.25
YES
L0013248         0   0.75610E-07  474612.3 3752210.6   472.0     3.49      6.51      3.25
YES
L0013249         0   0.75610E-07  474626.0 3752213.3   472.0     3.49      6.51      3.25
YES
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L0013250        0   0.75610E-07  474639.8 3752215.8   472.0    3.49     6.51     3.25
YES
L0013251        0   0.75610E-07  474653.6 3752218.0   472.0    3.49     6.51     3.25
YES
L0013252        0   0.75610E-07  474667.5 3752220.2   472.0    3.49     6.51     3.25
YES
L0013253        0   0.75610E-07  474681.4 3752221.0   472.0    3.49     6.51     3.25
YES
L0013254        0   0.75610E-07  474695.4 3752221.8   472.0    3.49     6.51     3.25
YES
L0013255        0   0.75610E-07  474709.4 3752222.6   472.0    3.49     6.51     3.25
YES
L0013256        0   0.75610E-07  474723.4 3752223.4   472.0    3.49     6.51     3.25
YES
L0013257        0   0.75610E-07  474737.4 3752224.1   472.0    3.49     6.51     3.25
YES
L0013258        0   0.75610E-07  474751.3 3752224.9   472.0    3.49     6.51     3.25
YES
L0013259        0   0.75610E-07  474765.3 3752224.8   472.0    3.49     6.51     3.25
YES
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0013260	0	0.75610E-07	474779.3	3752224.6	472.0	3.49	6.51	3.25
YES								
L0013261	0	0.75610E-07	474793.3	3752224.5	472.0	3.49	6.51	3.25
YES								
L0013262	0	0.75610E-07	474807.3	3752224.4	472.0	3.49	6.51	3.25
YES								
L0013263	0	0.75610E-07	474821.3	3752224.2	472.0	3.49	6.51	3.25
YES								
L0013264	0	0.75610E-07	474835.3	3752224.1	472.0	3.49	6.51	3.25
YES								
L0013265	0	0.75610E-07	474849.3	3752223.9	472.0	3.49	6.51	3.25
YES								
L0013266	0	0.75610E-07	474863.3	3752223.8	472.4	3.49	6.51	3.25
YES								
L0013267	0	0.75610E-07	474877.3	3752223.6	472.9	3.49	6.51	3.25
YES								
L0013268	0	0.75610E-07	474891.3	3752223.5	473.0	3.49	6.51	3.25
YES								
L0013269	0	0.75610E-07	474905.3	3752223.3	473.0	3.49	6.51	3.25
YES								
L0013270	0	0.75610E-07	474919.3	3752223.2	472.7	3.49	6.51	3.25
YES								
L0013271	0	0.75610E-07	474933.3	3752223.0	472.2	3.49	6.51	3.25
YES								
L0013272	0	0.75610E-07	474947.3	3752222.9	472.0	3.49	6.51	3.25
YES								

The header section for the second table reads:

```
                NUMBER EMISSION RATE                        BASE    RELEASE    INIT.    INIT.
                URBAN  EMISSION RATE
  SOURCE        PART.  (GRAMS/SEC)      X         Y         ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID    CATS.          BY          (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)
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L0013273          0    0.75610E-07    474961.3 3752222.9    472.0      3.49      6.51      3.25
  YES
L0013274          0    0.75610E-07    474975.3 3752222.9    472.0      3.49      6.51      3.25
  YES
L0013275          0    0.75610E-07    474989.3 3752223.0    472.0      3.49      6.51      3.25
  YES
L0013276          0    0.75610E-07    475003.3 3752223.0    472.0      3.49      6.51      3.25
  YES
L0013277          0    0.75610E-07    475017.3 3752223.1    472.0      3.49      6.51      3.25
  YES
L0013278          0    0.75610E-07    475031.3 3752223.1    472.0      3.49      6.51      3.25
  YES
L0013279          0    0.75610E-07    475045.3 3752223.2    472.0      3.49      6.51      3.25
  YES
L0013280          0    0.75610E-07    475059.3 3752223.2    472.0      3.49      6.51      3.25
  YES
L0013281          0    0.75610E-07    475073.3 3752223.3    472.0      3.49      6.51      3.25
  YES
L0013282          0    0.75610E-07    475087.3 3752223.4    472.0      3.49      6.51      3.25
  YES
L0013283          0    0.75610E-07    475101.3 3752223.4    472.0      3.49      6.51      3.25
  YES
L0013284          0    0.75610E-07    475115.3 3752223.5    472.0      3.49      6.51      3.25
  YES
L0013285          0    0.75610E-07    475129.3 3752223.5    472.0      3.49      6.51      3.25
  YES
L0013286          0    0.75610E-07    475143.3 3752223.6    472.0      3.49      6.51      3.25
  YES
L0013287          0    0.75610E-07    475157.3 3752223.6    472.0      3.49      6.51      3.25
  YES
L0013288          0    0.75610E-07    475171.3 3752223.7    472.0      3.49      6.51      3.25
  YES
L0013289          0    0.75610E-07    475185.3 3752223.7    472.0      3.49      6.51      3.25
  YES
L0013290          0    0.75610E-07    475199.3 3752223.8    472.0      3.49      6.51      3.25
  YES
L0013291          0    0.75610E-07    475213.3 3752223.8    472.0      3.49      6.51      3.25
  YES
L0013292          0    0.75610E-07    475227.3 3752223.9    472.0      3.49      6.51      3.25
  YES
L0013293          0    0.75610E-07    475241.3 3752224.0    472.0      3.49      6.51      3.25
  YES
L0013294          0    0.75610E-07    475255.3 3752224.0    472.0      3.49      6.51      3.25
  YES
L0013295          0    0.75610E-07    475269.3 3752224.1    472.0      3.49      6.51      3.25
  YES
L0013296          0    0.75610E-07    475283.3 3752224.1    472.0      3.49      6.51      3.25
  YES
L0013297          0    0.75610E-07    475297.3 3752224.2    472.0      3.49      6.51      3.25
  YES
L0013298          0    0.75610E-07    475311.3 3752224.2    472.0      3.49      6.51      3.25
  YES
L0013299          0    0.75610E-07    475325.3 3752224.3    472.0      3.49      6.51      3.25
  YES
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.

SOURCE ID	URBAN SOURCE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ
L0013300 YES	0	0.75610E-07	475339.3	3752224.3	472.0	3.49	6.51	3.25
L0013301 YES	0	0.75610E-07	475353.3	3752224.4	472.0	3.49	6.51	3.25
L0013302 YES	0	0.75610E-07	475367.3	3752224.5	472.0	3.49	6.51	3.25
L0013303 YES	0	0.75610E-07	475381.3	3752224.5	472.0	3.49	6.51	3.25
L0013304 YES	0	0.75610E-07	475395.3	3752224.6	472.0	3.49	6.51	3.25
L0013305 YES	0	0.75610E-07	475409.3	3752224.6	472.0	3.49	6.51	3.25
L0013306 YES	0	0.75610E-07	475423.3	3752224.7	472.0	3.49	6.51	3.25
L0013307 YES	0	0.75610E-07	475437.3	3752224.7	472.0	3.49	6.51	3.25
L0013308 YES	0	0.75610E-07	475451.3	3752224.8	472.0	3.49	6.51	3.25
L0013309 YES	0	0.75610E-07	475465.3	3752224.8	472.0	3.49	6.51	3.25
L0013310 YES	0	0.75610E-07	475479.3	3752224.9	472.0	3.49	6.51	3.25
L0013311 YES	0	0.75610E-07	475493.3	3752224.9	472.0	3.49	6.51	3.25
L0013312 YES	0	0.75610E-07	475507.3	3752225.0	472.0	3.49	6.51	3.25
L0013313 YES	0	0.75610E-07	475521.3	3752225.1	472.0	3.49	6.51	3.25
L0013314 YES	0	0.75610E-07	475535.3	3752225.1	472.0	3.49	6.51	3.25
L0013315 YES	0	0.75610E-07	475549.3	3752225.2	472.0	3.49	6.51	3.25
L0013316 YES	0	0.75610E-07	475563.3	3752225.2	472.0	3.49	6.51	3.25
L0013317 YES	0	0.75610E-07	475577.3	3752225.3	472.0	3.49	6.51	3.25
L0013318 YES	0	0.75610E-07	475591.3	3752225.3	472.0	3.49	6.51	3.25
L0013319 YES	0	0.75610E-07	475605.3	3752225.4	472.0	3.49	6.51	3.25
L0013320 YES	0	0.75610E-07	475619.3	3752225.4	472.0	3.49	6.51	3.25
L0013321 YES	0	0.75610E-07	475633.3	3752225.5	472.0	3.49	6.51	3.25
L0013322 YES	0	0.75610E-07	475647.3	3752225.5	472.0	3.49	6.51	3.25
L0013323 YES	0	0.75610E-07	475661.3	3752225.6	472.0	3.49	6.51	3.25
L0013324 YES	0	0.75610E-07	475675.3	3752225.7	472.0	3.49	6.51	3.25
L0013325 YES	0	0.75610E-07	475689.3	3752225.7	472.0	3.49	6.51	3.25
L0013326 YES	0	0.75610E-07	475703.3	3752225.8	472.0	3.49	6.51	3.25
L0013327 YES	0	0.75610E-07	475717.3	3752225.8	472.0	3.49	6.51	3.25
L0013328 YES	0	0.75610E-07	475731.3	3752225.9	472.0	3.49	6.51	3.25

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L0013329           0   0.75610E-07  475745.3 3752225.9   472.0     3.49     6.51     3.25
  YES
L0013330           0   0.75610E-07  475759.3 3752226.0   472.0     3.49     6.51     3.25
  YES
L0013331           0   0.75610E-07  475773.3 3752226.0   472.0     3.49     6.51     3.25
  YES
L0013332           0   0.75610E-07  475787.3 3752226.1   472.0     3.49     6.51     3.25
  YES
L0013333           0   0.75610E-07  475801.3 3752226.2   472.0     3.49     6.51     3.25
  YES
L0013334           0   0.75610E-07  475815.3 3752226.2   472.0     3.49     6.51     3.25
  YES
L0013335           0   0.75610E-07  475829.3 3752226.3   472.0     3.49     6.51     3.25
  YES
L0013336           0   0.75610E-07  475843.3 3752226.3   472.0     3.49     6.51     3.25
  YES
L0013337           0   0.75610E-07  475857.3 3752226.4   472.0     3.49     6.51     3.25
  YES
L0013338           0   0.14590E-05  471210.6 3752237.5   516.6     3.49     4.00     3.25
  YES
L0013339           0   0.14590E-05  471210.6 3752228.9   517.0     3.49     4.00     3.25
  YES
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0013340	0	0.14590E-05	471210.6	3752220.3	517.2	3.49	4.00	3.25
YES								
L0013341	0	0.14590E-05	471210.6	3752211.7	517.5	3.49	4.00	3.25
YES								
L0013342	0	0.14590E-05	471211.3	3752203.8	517.7	3.49	4.00	3.25
YES								
L0013343	0	0.14590E-05	471219.9	3752203.8	518.0	3.49	4.00	3.25
YES								
L0013344	0	0.14590E-05	471228.5	3752203.8	518.0	3.49	4.00	3.25
YES								
L0013345	0	0.14590E-05	471237.1	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013346	0	0.14590E-05	471245.7	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013347	0	0.14590E-05	471254.2	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013348	0	0.14590E-05	471262.8	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013349	0	0.14590E-05	471271.4	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013350	0	0.14590E-05	471280.0	3752203.7	518.1	3.49	4.00	3.25
YES								
L0013351	0	0.14590E-05	471288.6	3752203.7	518.4	3.49	4.00	3.25
YES								

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L0013352        0   0.14590E-05   471297.2 3752203.7   518.8      3.49      4.00      3.25
   YES
L0013353        0   0.14590E-05   471305.8 3752203.7   519.1      3.49      4.00      3.25
   YES
L0013354        0   0.14590E-05   471314.4 3752203.6   519.4      3.49      4.00      3.25
   YES
L0013355        0   0.14590E-05   471323.0 3752203.6   519.7      3.49      4.00      3.25
   YES
L0013356        0   0.14590E-05   471331.6 3752203.6   520.0      3.49      4.00      3.25
   YES
L0013357        0   0.14590E-05   471340.1 3752203.6   520.3      3.49      4.00      3.25
   YES
L0013358        0   0.14590E-05   471348.7 3752203.6   520.9      3.49      4.00      3.25
   YES
L0013359        0   0.14590E-05   471357.3 3752203.6   521.4      3.49      4.00      3.25
   YES
L0013360        0   0.14590E-05   471365.9 3752203.6   522.0      3.49      4.00      3.25
   YES
L0013361        0   0.14590E-05   471374.5 3752203.6   522.4      3.49      4.00      3.25
   YES
L0013362        0   0.14590E-05   471383.1 3752203.6   522.7      3.49      4.00      3.25
   YES
L0013363        0   0.14590E-05   471391.7 3752203.5   522.9      3.49      4.00      3.25
   YES
L0013364        0   0.14590E-05   471400.3 3752203.5   523.2      3.49      4.00      3.25
   YES
L0013365        0   0.14590E-05   471408.9 3752203.5   523.8      3.49      4.00      3.25
   YES
L0013366        0   0.14590E-05   471417.5 3752203.5   524.4      3.49      4.00      3.25
   YES
L0013367        0   0.14590E-05   471426.0 3752203.5   525.0      3.49      4.00      3.25
   YES
L0013368        0   0.14590E-05   471434.6 3752203.5   525.4      3.49      4.00      3.25
   YES
L0013369        0   0.14590E-05   471443.2 3752203.5   525.7      3.49      4.00      3.25
   YES
L0013370        0   0.14590E-05   471451.8 3752203.5   526.0      3.49      4.00      3.25
   YES
L0013371        0   0.14590E-05   471460.4 3752203.5   526.3      3.49      4.00      3.25
   YES
L0013372        0   0.14590E-05   471469.0 3752203.5   526.1      3.49      4.00      3.25
   YES
L0013373        0   0.14590E-05   471477.6 3752203.4   525.8      3.49      4.00      3.25
   YES
L0013374        0   0.14590E-05   471486.2 3752203.4   525.6      3.49      4.00      3.25
   YES
L0013375        0   0.14590E-05   471494.8 3752203.4   525.7      3.49      4.00      3.25
   YES
L0013376        0   0.14590E-05   471503.4 3752203.4   525.9      3.49      4.00      3.25
   YES
L0013377        0   0.14590E-05   471511.9 3752203.4   526.2      3.49      4.00      3.25
   YES
L0013378        0   0.14590E-05   471520.5 3752203.4   526.4      3.49      4.00      3.25
   YES
L0013379        0   0.14590E-05   471529.1 3752203.4   526.4      3.49      4.00      3.25
   YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0013380 YES	0	0.14590E-05	471537.7	3752203.4	526.3	3.49	4.00	3.25
L0013381 YES	0	0.14590E-05	471546.3	3752203.4	526.2	3.49	4.00	3.25
L0013382 YES	0	0.14590E-05	471554.9	3752203.3	525.9	3.49	4.00	3.25
L0013383 YES	0	0.14590E-05	471563.5	3752203.3	525.3	3.49	4.00	3.25
L0013384 YES	0	0.14590E-05	471572.1	3752203.3	524.7	3.49	4.00	3.25
L0013385 YES	0	0.14590E-05	471580.7	3752203.3	524.3	3.49	4.00	3.25
L0013386 YES	0	0.14590E-05	471589.3	3752203.3	524.5	3.49	4.00	3.25
L0013387 YES	0	0.14590E-05	471597.8	3752203.3	524.8	3.49	4.00	3.25
L0013388 YES	0	0.14590E-05	471606.4	3752203.3	525.1	3.49	4.00	3.25
L0013389 YES	0	0.14590E-05	471615.0	3752203.3	525.4	3.49	4.00	3.25
L0013390 YES	0	0.14590E-05	471623.6	3752203.3	525.6	3.49	4.00	3.25
L0013391 YES	0	0.14590E-05	471632.2	3752203.2	525.9	3.49	4.00	3.25
L0013392 YES	0	0.14590E-05	471640.8	3752203.2	526.1	3.49	4.00	3.25
L0013393 YES	0	0.14590E-05	471649.4	3752203.2	526.1	3.49	4.00	3.25
L0013394 YES	0	0.14590E-05	471658.0	3752203.2	526.1	3.49	4.00	3.25
L0013395 YES	0	0.14590E-05	471666.6	3752203.2	526.1	3.49	4.00	3.25
L0013396 YES	0	0.14590E-05	471675.2	3752203.2	526.1	3.49	4.00	3.25
L0013397 YES	0	0.14590E-05	471683.7	3752203.2	526.1	3.49	4.00	3.25
L0013398 YES	0	0.14590E-05	471692.3	3752203.2	526.0	3.49	4.00	3.25
L0013399 YES	0	0.14590E-05	471700.9	3752203.2	525.9	3.49	4.00	3.25
L0013400 YES	0	0.14590E-05	471709.5	3752203.2	525.3	3.49	4.00	3.25
L0013401 YES	0	0.14590E-05	471718.1	3752203.1	524.8	3.49	4.00	3.25
L0013402 YES	0	0.14590E-05	471726.7	3752203.1	524.2	3.49	4.00	3.25
L0013403 YES	0	0.14590E-05	471733.4	3752201.2	523.6	3.49	4.00	3.25
L0013404 YES	0	0.14590E-05	471733.3	3752192.6	523.6	3.49	4.00	3.25
L0013405 YES	0	0.14590E-05	471733.2	3752184.1	523.5	3.49	4.00	3.25
L0013406 YES	0	0.14590E-05	471733.2	3752175.5	523.6	3.49	4.00	3.25
L0013407 YES	0	0.14590E-05	471733.1	3752166.9	523.8	3.49	4.00	3.25

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L0013408        0   0.14590E-05  471733.0 3752158.3   524.1    3.49    4.00    3.25
   YES
L0013409        0   0.14590E-05  471733.0 3752149.7   524.4    3.49    4.00    3.25
   YES
L0013410        0   0.14590E-05  471732.9 3752141.1   524.7    3.49    4.00    3.25
   YES
L0013411        0   0.14590E-05  471732.8 3752132.5   525.0    3.49    4.00    3.25
   YES
L0013412        0   0.14590E-05  471732.8 3752123.9   525.3    3.49    4.00    3.25
   YES
L0013413        0   0.14590E-05  471732.7 3752115.3   525.6    3.49    4.00    3.25
   YES
L0013414        0   0.14590E-05  471732.6 3752106.7   525.9    3.49    4.00    3.25
   YES
L0013415        0   0.14590E-05  471732.6 3752098.2   526.3    3.49    4.00    3.25
   YES
L0013416        0   0.14590E-05  471732.5 3752089.6   526.6    3.49    4.00    3.25
   YES
L0013417        0   0.14590E-05  471732.4 3752081.0   526.9    3.49    4.00    3.25
   YES
L0013418        0   0.14590E-05  471732.4 3752072.4   527.2    3.49    4.00    3.25
   YES
L0013419        0   0.14590E-05  471732.3 3752063.8   527.5    3.49    4.00    3.25
   YES
```

▯▯ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                        *** VOLUME SOURCE DATA ***
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SOURCE ID (METERS)	NUMBER URBAN PART. CATS. SCALAR VARY	EMISSION RATE EMISSION RATE (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

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- - - - - - - - - - - - -

L0013420        0   0.14590E-05  471732.2 3752055.2   527.8    3.49    4.00    3.25
   YES
L0013421        0   0.14590E-05  471732.2 3752046.6   528.1    3.49    4.00    3.25
   YES
L0013422        0   0.14590E-05  471732.1 3752038.0   528.4    3.49    4.00    3.25
   YES
L0013423        0   0.14590E-05  471732.0 3752029.4   528.7    3.49    4.00    3.25
   YES
L0013424        0   0.14590E-05  471732.0 3752020.8   529.0    3.49    4.00    3.25
   YES
L0013425        0   0.14590E-05  471731.9 3752012.3   529.3    3.49    4.00    3.25
   YES
L0013426        0   0.14590E-05  471731.8 3752003.7   529.7    3.49    4.00    3.25
   YES
L0013427        0   0.14590E-05  471731.8 3751995.1   530.0    3.49    4.00    3.25
   YES
L0013428        0   0.14590E-05  471731.7 3751986.5   530.3    3.49    4.00    3.25
   YES
L0013429        0   0.14590E-05  471731.6 3751977.9   530.6    3.49    4.00    3.25
   YES
L0013430        0   0.14590E-05  471731.6 3751969.3   530.8    3.49    4.00    3.25
   YES
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L0013431        0    0.14590E-05  471731.5 3751960.7   531.1    3.49    4.00    3.25
   YES
L0013432        0    0.14590E-05  471730.7 3751952.9   531.4    3.49    4.00    3.25
   YES
L0013433        0    0.14590E-05  471722.1 3751952.8   532.1    3.49    4.00    3.25
   YES
L0013434        0    0.14590E-05  471713.5 3751952.7   532.8    3.49    4.00    3.25
   YES
L0013435        0    0.14590E-05  471704.9 3751952.6   533.4    3.49    4.00    3.25
   YES
L0013436        0    0.14590E-05  471696.3 3751952.5   533.9    3.49    4.00    3.25
   YES
L0013437        0    0.14590E-05  471687.7 3751952.4   534.1    3.49    4.00    3.25
   YES
L0013438        0    0.14590E-05  471679.1 3751952.4   534.3    3.49    4.00    3.25
   YES
L0013439        0    0.14590E-05  471670.5 3751952.3   534.4    3.49    4.00    3.25
   YES
L0013440        0    0.14590E-05  471662.0 3751952.2   534.7    3.49    4.00    3.25
   YES
L0013441        0    0.14590E-05  471653.4 3751952.1   535.0    3.49    4.00    3.25
   YES
L0013442        0    0.14590E-05  471644.8 3751952.0   535.3    3.49    4.00    3.25
   YES
L0013443        0    0.14590E-05  471636.2 3751951.9   535.5    3.49    4.00    3.25
   YES
L0013444        0    0.14590E-05  471627.6 3751951.8   535.7    3.49    4.00    3.25
   YES
L0013445        0    0.14590E-05  471619.0 3751951.8   535.8    3.49    4.00    3.25
   YES
L0013446        0    0.14590E-05  471610.4 3751951.7   536.0    3.49    4.00    3.25
   YES
L0013447        0    0.14590E-05  471601.8 3751951.6   535.9    3.49    4.00    3.25
   YES
L0013448        0    0.14590E-05  471593.2 3751951.5   535.7    3.49    4.00    3.25
   YES
L0013449        0    0.14590E-05  471584.7 3751951.4   535.6    3.49    4.00    3.25
   YES
L0013450        0    0.14590E-05  471576.1 3751951.3   535.3    3.49    4.00    3.25
   YES
L0013451        0    0.14590E-05  471567.5 3751951.2   534.9    3.49    4.00    3.25
   YES
L0013452        0    0.14590E-05  471558.9 3751951.2   534.5    3.49    4.00    3.25
   YES
L0013453        0    0.14590E-05  471550.3 3751951.1   534.0    3.49    4.00    3.25
   YES
L0013454        0    0.14590E-05  471541.7 3751951.0   533.6    3.49    4.00    3.25
   YES
L0013455        0    0.14590E-05  471533.1 3751950.9   533.2    3.49    4.00    3.25
   YES
L0013456        0    0.14590E-05  471524.5 3751950.8   532.8    3.49    4.00    3.25
   YES
L0013457        0    0.14590E-05  471515.9 3751950.7   532.3    3.49    4.00    3.25
   YES
L0013458        0    0.14590E-05  471507.3 3751950.6   531.9    3.49    4.00    3.25
   YES
L0013459        0    0.14590E-05  471498.8 3751950.6   531.5    3.49    4.00    3.25
   YES
```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                        *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                   BASE     RELEASE    INIT.     INIT.
        URBAN  EMISSION RATE
   SOURCE  PART.  (GRAMS/SEC)     X          Y       ELEV.    HEIGHT      SY        SZ
     SOURCE  SCALAR VARY
      ID     CATS.             (METERS)  (METERS)  (METERS)  (METERS)  (METERS)
      (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0013460        0   0.14590E-05  471490.2 3751950.5   531.0     3.49      4.00      3.25
YES
L0013461        0   0.14590E-05  471481.6 3751950.4   530.7     3.49      4.00      3.25
YES
L0013462        0   0.14590E-05  471473.0 3751950.3   530.4     3.49      4.00      3.25
YES
L0013463        0   0.14590E-05  471464.4 3751950.2   530.2     3.49      4.00      3.25
YES
L0013464        0   0.14590E-05  471455.8 3751950.1   529.8     3.49      4.00      3.25
YES
L0013465        0   0.14590E-05  471447.2 3751950.0   529.2     3.49      4.00      3.25
YES
L0013466        0   0.14590E-05  471438.6 3751950.0   528.6     3.49      4.00      3.25
YES
L0013467        0   0.14590E-05  471430.0 3751949.9   528.0     3.49      4.00      3.25
YES
L0013468        0   0.14590E-05  471421.5 3751949.8   527.6     3.49      4.00      3.25
YES
L0013469        0   0.14590E-05  471412.9 3751949.7   527.1     3.49      4.00      3.25
YES
L0013470        0   0.14590E-05  471404.3 3751949.6   526.7     3.49      4.00      3.25
YES
L0013471        0   0.14590E-05  471395.7 3751949.5   526.1     3.49      4.00      3.25
YES
L0013472        0   0.14590E-05  471387.1 3751949.4   525.4     3.49      4.00      3.25
YES
L0013473        0   0.14590E-05  471378.5 3751949.4   524.7     3.49      4.00      3.25
YES
L0013474        0   0.14590E-05  471369.9 3751949.3   524.0     3.49      4.00      3.25
YES
L0013475        0   0.14590E-05  471361.3 3751949.2   523.7     3.49      4.00      3.25
YES
L0013476        0   0.14590E-05  471352.7 3751949.1   523.4     3.49      4.00      3.25
YES
L0013477        0   0.14590E-05  471344.1 3751949.0   523.1     3.49      4.00      3.25
YES
L0013478        0   0.14590E-05  471335.6 3751948.9   522.9     3.49      4.00      3.25
YES
L0013479        0   0.14590E-05  471327.0 3751948.9   522.6     3.49      4.00      3.25
YES
L0013480        0   0.14590E-05  471318.4 3751948.8   522.3     3.49      4.00      3.25
YES
L0013481        0   0.14590E-05  471309.8 3751948.7   522.0     3.49      4.00      3.25
YES
L0013482        0   0.14590E-05  471301.2 3751948.6   522.1     3.49      4.00      3.25
YES
L0013483        0   0.14590E-05  471292.6 3751948.5   522.1     3.49      4.00      3.25
YES
L0013484        0   0.14590E-05  471284.0 3751948.4   522.2     3.49      4.00      3.25
YES
L0013485        0   0.14590E-05  471275.4 3751948.3   522.4     3.49      4.00      3.25
YES
L0013486        0   0.14590E-05  471266.9 3751947.9   522.8     3.49      4.00      3.25
YES
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L0013487           0   0.14590E-05   471258.3 3751947.2   523.3      3.49       4.00      3.25
YES
L0013488           0   0.14590E-05   471249.7 3751946.4   523.7      3.49       4.00      3.25
YES
L0013489           0   0.14590E-05   471241.2 3751945.7   523.5      3.49       4.00      3.25
YES
L0013490           0   0.14590E-05   471232.6 3751946.0   523.3      3.49       4.00      3.25
YES
L0013491           0   0.14590E-05   471224.0 3751946.3   523.1      3.49       4.00      3.25
YES
L0013492           0   0.14590E-05   471215.4 3751946.6   522.9      3.49       4.00      3.25
YES
L0013493           0   0.14590E-05   471206.8 3751947.0   522.5      3.49       4.00      3.25
YES
L0013494           0   0.14590E-05   471198.3 3751947.3   522.2      3.49       4.00      3.25
YES
L0013495           0   0.14590E-05   471189.7 3751947.6   521.9      3.49       4.00      3.25
YES
L0013496           0   0.14590E-05   471181.1 3751947.9   521.3      3.49       4.00      3.25
YES
L0013497           0   0.14590E-05   471172.5 3751948.2   520.7      3.49       4.00      3.25
YES
L0013498           0   0.14590E-05   471163.9 3751948.6   520.1      3.49       4.00      3.25
YES
L0013499           0   0.14590E-05   471155.3 3751948.9   519.7      3.49       4.00      3.25
YES
```

🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                        *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0013500 YES	0	0.14590E-05	471146.8	3751949.2	519.5	3.49	4.00	3.25
L0013501 YES	0	0.14590E-05	471138.2	3751949.5	519.3	3.49	4.00	3.25
L0013502 YES	0	0.14590E-05	471129.6	3751949.8	519.1	3.49	4.00	3.25
L0013503 YES	0	0.14590E-05	471121.0	3751950.2	518.9	3.49	4.00	3.25
L0013504 YES	0	0.14590E-05	471112.4	3751950.5	518.8	3.49	4.00	3.25
L0013505 YES	0	0.14590E-05	471103.8	3751950.8	518.6	3.49	4.00	3.25
L0013506 YES	0	0.14590E-05	471095.3	3751951.1	518.3	3.49	4.00	3.25
L0013507 YES	0	0.14590E-05	471086.7	3751951.5	517.9	3.49	4.00	3.25
L0013508 YES	0	0.18690E-05	471151.0	3751867.4	522.1	3.49	4.00	3.25
L0013509 YES	0	0.18690E-05	471151.0	3751858.8	521.4	3.49	4.00	3.25

| L0013510 | 0 | 0.18690E-05 | 471151.0 | 3751850.2 | 520.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013511 | 0 | 0.18690E-05 | 471154.2 | 3751844.8 | 520.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013512 | 0 | 0.18690E-05 | 471162.8 | 3751844.7 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013513 | 0 | 0.18690E-05 | 471171.4 | 3751844.7 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013514 | 0 | 0.18690E-05 | 471180.0 | 3751844.6 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013515 | 0 | 0.18690E-05 | 471188.6 | 3751844.6 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013516 | 0 | 0.18690E-05 | 471197.2 | 3751844.5 | 520.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013517 | 0 | 0.18690E-05 | 471205.8 | 3751844.5 | 520.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013518 | 0 | 0.18690E-05 | 471214.4 | 3751844.4 | 520.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013519 | 0 | 0.18690E-05 | 471222.9 | 3751844.4 | 519.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013520 | 0 | 0.18690E-05 | 471231.5 | 3751844.3 | 519.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013521 | 0 | 0.18690E-05 | 471240.1 | 3751844.3 | 518.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013522 | 0 | 0.18690E-05 | 471248.7 | 3751844.3 | 518.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013523 | 0 | 0.18690E-05 | 471257.3 | 3751844.2 | 519.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013524 | 0 | 0.18690E-05 | 471265.9 | 3751844.2 | 520.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013525 | 0 | 0.18690E-05 | 471274.5 | 3751844.1 | 522.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013526 | 0 | 0.18690E-05 | 471283.1 | 3751844.1 | 523.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013527 | 0 | 0.18690E-05 | 471291.7 | 3751844.0 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013528 | 0 | 0.18690E-05 | 471300.3 | 3751844.0 | 523.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013529 | 0 | 0.18690E-05 | 471308.8 | 3751843.9 | 524.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013530 | 0 | 0.18690E-05 | 471317.4 | 3751843.9 | 523.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013531 | 0 | 0.18690E-05 | 471326.0 | 3751843.8 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013532 | 0 | 0.18690E-05 | 471334.6 | 3751843.8 | 523.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013533 | 0 | 0.18690E-05 | 471343.2 | 3751843.7 | 523.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013534 | 0 | 0.18690E-05 | 471351.8 | 3751843.7 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013535 | 0 | 0.18690E-05 | 471360.4 | 3751843.6 | 523.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013536 | 0 | 0.18690E-05 | 471369.0 | 3751843.6 | 524.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013537 | 0 | 0.18690E-05 | 471377.6 | 3751843.5 | 524.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013538 | 0 | 0.18690E-05 | 471386.2 | 3751843.5 | 524.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013539 | 0 | 0.18690E-05 | 471394.7 | 3751843.5 | 524.8 | 3.49 | 4.00 | 3.25 |
| YES |

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                           *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                   BASE    RELEASE    INIT.    INIT.
       URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)    X         Y       ELEV.   HEIGHT     SY       SZ
  SOURCE SCALAR VARY
   ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)           BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - -

L0013540        0   0.18690E-05  471403.3 3751843.4   525.0     3.49     4.00     3.25
YES
L0013541        0   0.18690E-05  471411.9 3751843.4   525.3     3.49     4.00     3.25
YES
L0013542        0   0.18690E-05  471420.5 3751843.3   525.7     3.49     4.00     3.25
YES
L0013543        0   0.18690E-05  471429.1 3751843.3   526.0     3.49     4.00     3.25
YES
L0013544        0   0.18690E-05  471437.7 3751843.2   526.5     3.49     4.00     3.25
YES
L0013545        0   0.18690E-05  471446.3 3751843.2   527.1     3.49     4.00     3.25
YES
L0013546        0   0.18690E-05  471454.9 3751843.1   527.7     3.49     4.00     3.25
YES
L0013547        0   0.18690E-05  471463.5 3751843.1   528.2     3.49     4.00     3.25
YES
L0013548        0   0.18690E-05  471472.1 3751843.0   528.8     3.49     4.00     3.25
YES
L0013549        0   0.18690E-05  471480.6 3751843.0   529.3     3.49     4.00     3.25
YES
L0013550        0   0.18690E-05  471489.2 3751842.9   529.9     3.49     4.00     3.25
YES
L0013551        0   0.18690E-05  471497.8 3751842.9   530.2     3.49     4.00     3.25
YES
L0013552        0   0.18690E-05  471506.4 3751842.8   530.5     3.49     4.00     3.25
YES
L0013553        0   0.18690E-05  471515.0 3751842.8   530.8     3.49     4.00     3.25
YES
L0013554        0   0.18690E-05  471523.6 3751842.7   531.4     3.49     4.00     3.25
YES
L0013555        0   0.18690E-05  471532.2 3751842.7   532.2     3.49     4.00     3.25
YES
L0013556        0   0.18690E-05  471540.8 3751842.7   533.0     3.49     4.00     3.25
YES
L0013557        0   0.18690E-05  471549.4 3751842.6   533.8     3.49     4.00     3.25
YES
L0013558        0   0.18690E-05  471558.0 3751842.6   534.4     3.49     4.00     3.25
YES
L0013559        0   0.18690E-05  471566.5 3751842.5   534.9     3.49     4.00     3.25
YES
L0013560        0   0.18690E-05  471575.1 3751842.5   535.4     3.49     4.00     3.25
YES
L0013561        0   0.18690E-05  471583.7 3751842.4   535.7     3.49     4.00     3.25
YES
L0013562        0   0.18690E-05  471592.3 3751842.4   535.8     3.49     4.00     3.25
YES
L0013563        0   0.18690E-05  471600.9 3751842.3   535.8     3.49     4.00     3.25
YES
L0013564        0   0.18690E-05  471609.5 3751842.3   535.8     3.49     4.00     3.25
YES
L0013565        0   0.18690E-05  471618.1 3751842.2   535.9     3.49     4.00     3.25
YES
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L0013566        0   0.18690E-05  471626.7 3751842.2   535.9    3.49    4.00    3.25
YES
L0013567        0   0.18690E-05  471635.3 3751842.1   536.0    3.49    4.00    3.25
YES
L0013568        0   0.18690E-05  471643.8 3751842.1   536.0    3.49    4.00    3.25
YES
L0013569        0   0.18690E-05  471652.4 3751842.0   536.0    3.49    4.00    3.25
YES
L0013570        0   0.18690E-05  471661.0 3751842.0   536.0    3.49    4.00    3.25
YES
L0013571        0   0.18690E-05  471669.6 3751841.9   536.0    3.49    4.00    3.25
YES
L0013572        0   0.18690E-05  471678.2 3751841.9   536.0    3.49    4.00    3.25
YES
L0013573        0   0.18690E-05  471686.8 3751841.9   536.0    3.49    4.00    3.25
YES
L0013574        0   0.18690E-05  471695.4 3751841.8   536.0    3.49    4.00    3.25
YES
L0013575        0   0.18690E-05  471704.0 3751841.8   536.0    3.49    4.00    3.25
YES
L0013576        0   0.18690E-05  471712.6 3751841.7   536.0    3.49    4.00    3.25
YES
L0013577        0   0.18690E-05  471721.2 3751841.7   536.0    3.49    4.00    3.25
YES
L0013578        0   0.18690E-05  471729.7 3751841.6   536.0    3.49    4.00    3.25
YES
L0013579        0   0.18690E-05  471738.3 3751841.6   536.3    3.49    4.00    3.25
YES
```

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                                        *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0013580	0	0.18690E-05	471746.9	3751841.5	536.6	3.49	4.00	3.25
YES								
L0013581	0	0.18690E-05	471748.5	3751834.5	536.6	3.49	4.00	3.25
YES								
L0013582	0	0.18690E-05	471748.6	3751825.9	536.6	3.49	4.00	3.25
YES								
L0013583	0	0.18690E-05	471748.6	3751817.3	536.6	3.49	4.00	3.25
YES								
L0013584	0	0.18690E-05	471748.7	3751808.7	536.6	3.49	4.00	3.25
YES								
L0013585	0	0.18690E-05	471748.8	3751800.1	536.6	3.49	4.00	3.25
YES								
L0013586	0	0.18690E-05	471748.8	3751791.5	536.6	3.49	4.00	3.25
YES								
L0013587	0	0.18690E-05	471748.9	3751782.9	536.6	3.49	4.00	3.25
YES								
L0013588	0	0.18690E-05	471749.0	3751774.3	536.4	3.49	4.00	3.25
YES								

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L0013589          0    0.18690E-05   471749.0 3751765.7   536.2    3.49    4.00    3.25
    YES
L0013590          0    0.18690E-05   471749.1 3751757.1   536.0    3.49    4.00    3.25
    YES
L0013591          0    0.18690E-05   471749.1 3751748.6   535.9    3.49    4.00    3.25
    YES
L0013592          0    0.18690E-05   471749.2 3751740.0   535.8    3.49    4.00    3.25
    YES
L0013593          0    0.18690E-05   471749.3 3751731.4   535.7    3.49    4.00    3.25
    YES
L0013594          0    0.18690E-05   471749.3 3751722.8   535.7    3.49    4.00    3.25
    YES
L0013595          0    0.18690E-05   471749.4 3751714.2   535.7    3.49    4.00    3.25
    YES
L0013596          0    0.18690E-05   471749.5 3751705.6   535.7    3.49    4.00    3.25
    YES
L0013597          0    0.18690E-05   471749.5 3751697.0   535.7    3.49    4.00    3.25
    YES
L0013598          0    0.18690E-05   471749.6 3751688.4   535.7    3.49    4.00    3.25
    YES
L0013599          0    0.18690E-05   471749.7 3751679.8   535.7    3.49    4.00    3.25
    YES
L0013600          0    0.18690E-05   471749.7 3751671.2   535.7    3.49    4.00    3.25
    YES
L0013601          0    0.18690E-05   471749.8 3751662.7   535.5    3.49    4.00    3.25
    YES
L0013602          0    0.18690E-05   471749.8 3751654.1   535.3    3.49    4.00    3.25
    YES
L0013603          0    0.18690E-05   471749.9 3751645.5   535.0    3.49    4.00    3.25
    YES
L0013604          0    0.18690E-05   471750.0 3751636.9   534.7    3.49    4.00    3.25
    YES
L0013605          0    0.18690E-05   471750.0 3751628.3   534.7    3.49    4.00    3.25
    YES
L0013606          0    0.18690E-05   471750.1 3751619.7   534.7    3.49    4.00    3.25
    YES
L0013607          0    0.18690E-05   471750.2 3751611.1   534.7    3.49    4.00    3.25
    YES
L0013608          0    0.18690E-05   471750.2 3751602.5   534.6    3.49    4.00    3.25
    YES
L0013609          0    0.18690E-05   471750.3 3751593.9   534.6    3.49    4.00    3.25
    YES
L0013610          0    0.18690E-05   471750.4 3751585.4   534.5    3.49    4.00    3.25
    YES
L0013611          0    0.18690E-05   471750.4 3751576.8   534.4    3.49    4.00    3.25
    YES
L0013612          0    0.18690E-05   471742.4 3751576.2   533.8    3.49    4.00    3.25
    YES
L0013613          0    0.18690E-05   471733.8 3751576.1   533.3    3.49    4.00    3.25
    YES
L0013614          0    0.18690E-05   471725.2 3751576.1   532.7    3.49    4.00    3.25
    YES
L0013615          0    0.18690E-05   471716.6 3751576.1   532.1    3.49    4.00    3.25
    YES
L0013616          0    0.18690E-05   471708.0 3751576.1   531.6    3.49    4.00    3.25
    YES
L0013617          0    0.18690E-05   471699.4 3751576.0   531.0    3.49    4.00    3.25
    YES
L0013618          0    0.18690E-05   471690.9 3751576.0   530.4    3.49    4.00    3.25
    YES
L0013619          0    0.18690E-05   471682.3 3751576.0   529.8    3.49    4.00    3.25
    YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	SOURCE SCALAR VARY BY (METERS)
L0013620 YES	0	0.18690E-05	471673.7	3751575.9	529.3	3.49	4.00	3.25	
L0013621 YES	0	0.18690E-05	471665.1	3751575.9	529.0	3.49	4.00	3.25	
L0013622 YES	0	0.18690E-05	471656.5	3751575.9	529.0	3.49	4.00	3.25	
L0013623 YES	0	0.18690E-05	471647.9	3751575.8	529.0	3.49	4.00	3.25	
L0013624 YES	0	0.18690E-05	471639.3	3751575.8	529.0	3.49	4.00	3.25	
L0013625 YES	0	0.18690E-05	471630.7	3751575.8	529.0	3.49	4.00	3.25	
L0013626 YES	0	0.18690E-05	471622.1	3751575.8	529.0	3.49	4.00	3.25	
L0013627 YES	0	0.18690E-05	471613.5	3751575.7	529.0	3.49	4.00	3.25	
L0013628 YES	0	0.18690E-05	471605.0	3751575.7	529.2	3.49	4.00	3.25	
L0013629 YES	0	0.18690E-05	471596.4	3751575.7	529.5	3.49	4.00	3.25	
L0013630 YES	0	0.18690E-05	471587.8	3751575.6	529.7	3.49	4.00	3.25	
L0013631 YES	0	0.18690E-05	471579.2	3751575.6	530.0	3.49	4.00	3.25	
L0013632 YES	0	0.18690E-05	471570.6	3751575.6	530.0	3.49	4.00	3.25	
L0013633 YES	0	0.18690E-05	471562.0	3751575.5	530.0	3.49	4.00	3.25	
L0013634 YES	0	0.18690E-05	471553.4	3751575.5	530.0	3.49	4.00	3.25	
L0013635 YES	0	0.18690E-05	471544.8	3751575.5	530.2	3.49	4.00	3.25	
L0013636 YES	0	0.18690E-05	471536.2	3751575.5	530.5	3.49	4.00	3.25	
L0013637 YES	0	0.18690E-05	471527.6	3751575.4	530.8	3.49	4.00	3.25	
L0013638 YES	0	0.18690E-05	471519.1	3751575.4	531.0	3.49	4.00	3.25	
L0013639 YES	0	0.18690E-05	471510.5	3751575.4	531.0	3.49	4.00	3.25	
L0013640 YES	0	0.18690E-05	471501.9	3751575.3	531.0	3.49	4.00	3.25	
L0013641 YES	0	0.18690E-05	471493.3	3751575.3	531.0	3.49	4.00	3.25	
L0013642 YES	0	0.18690E-05	471484.7	3751575.3	531.4	3.49	4.00	3.25	
L0013643 YES	0	0.18690E-05	471476.1	3751575.2	531.9	3.49	4.00	3.25	
L0013644 YES	0	0.18690E-05	471467.5	3751575.2	532.5	3.49	4.00	3.25	

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L0013645        0    0.18690E-05  471458.9 3751575.2   533.0     3.49     4.00      3.25
YES
L0013646        0    0.18690E-05  471450.3 3751575.2   533.3     3.49     4.00      3.25
YES
L0013647        0    0.18690E-05  471441.7 3751575.1   533.6     3.49     4.00      3.25
YES
L0013648        0    0.18690E-05  471433.2 3751575.1   533.9     3.49     4.00      3.25
YES
L0013649        0    0.18690E-05  471424.6 3751575.1   534.3     3.49     4.00      3.25
YES
L0013650        0    0.18690E-05  471416.0 3751575.0   534.9     3.49     4.00      3.25
YES
L0013651        0    0.18690E-05  471407.4 3751575.0   535.4     3.49     4.00      3.25
YES
L0013652        0    0.18690E-05  471398.8 3751575.0   536.0     3.49     4.00      3.25
YES
L0013653        0    0.18690E-05  471390.2 3751574.9   536.2     3.49     4.00      3.25
YES
L0013654        0    0.18690E-05  471381.6 3751574.9   536.5     3.49     4.00      3.25
YES
L0013655        0    0.18690E-05  471373.0 3751574.9   536.8     3.49     4.00      3.25
YES
L0013656        0    0.18690E-05  471364.4 3751574.9   536.7     3.49     4.00      3.25
YES
L0013657        0    0.18690E-05  471355.8 3751574.8   536.4     3.49     4.00      3.25
YES
L0013658        0    0.18690E-05  471347.3 3751574.8   536.1     3.49     4.00      3.25
YES
L0013659        0    0.18690E-05  471338.7 3751574.8   535.7     3.49     4.00      3.25
YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                       *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0013660	0	0.18690E-05	471330.1	3751574.7	534.3	3.49	4.00	3.25
YES								
L0013661	0	0.18690E-05	471321.5	3751574.7	533.0	3.49	4.00	3.25
YES								
L0013662	0	0.18690E-05	471312.9	3751574.7	531.6	3.49	4.00	3.25
YES								
L0013663	0	0.18690E-05	471304.3	3751574.6	530.9	3.49	4.00	3.25
YES								
L0013664	0	0.18690E-05	471295.7	3751574.6	530.6	3.49	4.00	3.25
YES								
L0013665	0	0.18690E-05	471287.1	3751574.6	530.3	3.49	4.00	3.25
YES								
L0013666	0	0.18690E-05	471278.5	3751574.6	530.0	3.49	4.00	3.25
YES								
L0013667	0	0.18690E-05	471269.9	3751574.5	529.8	3.49	4.00	3.25
YES								

```
L0013668          0    0.18690E-05    471261.4  3751574.5    529.5    3.49    4.00    3.25
   YES
L0013669          0    0.18690E-05    471252.8  3751574.5    529.2    3.49    4.00    3.25
   YES
L0013670          0    0.18690E-05    471244.2  3751574.4    528.7    3.49    4.00    3.25
   YES
L0013671          0    0.18690E-05    471235.6  3751574.4    528.2    3.49    4.00    3.25
   YES
L0013672          0    0.18690E-05    471227.0  3751574.4    527.6    3.49    4.00    3.25
   YES
L0013673          0    0.18690E-05    471218.4  3751574.3    527.1    3.49    4.00    3.25
   YES
L0013674          0    0.18690E-05    471209.8  3751574.3    527.1    3.49    4.00    3.25
   YES
L0013675          0    0.18690E-05    471201.2  3751574.3    527.1    3.49    4.00    3.25
   YES
L0013676          0    0.18690E-05    471192.6  3751574.3    527.0    3.49    4.00    3.25
   YES
L0013677          0    0.18690E-05    471184.1  3751573.9    526.8    3.49    4.00    3.25
   YES
L0013678          0    0.18690E-05    471175.5  3751573.0    526.5    3.49    4.00    3.25
   YES
L0013679          0    0.18690E-05    471167.0  3751572.0    526.1    3.49    4.00    3.25
   YES
L0013680          0    0.18690E-05    471158.5  3751571.1    525.8    3.49    4.00    3.25
   YES
L0013681          0    0.18690E-05    471154.3  3751564.0    525.5    3.49    4.00    3.25
   YES
L0013682          0    0.18690E-05    471153.6  3751555.5    525.2    3.49    4.00    3.25
   YES
L0013683          0    0.18690E-05    471153.6  3751546.9    524.8    3.49    4.00    3.25
   YES
L0013684          0    0.18690E-05    471153.6  3751538.4    524.8    3.49    4.00    3.25
   YES
L0013685          0    0.79940E-06    472059.6  3751899.3    527.0    3.49    4.00    3.25
   YES
L0013686          0    0.79940E-06    472062.2  3751907.5    526.0    3.49    4.00    3.25
   YES
L0013687          0    0.79940E-06    472064.7  3751915.7    525.7    3.49    4.00    3.25
   YES
L0013688          0    0.79940E-06    472067.3  3751923.9    525.2    3.49    4.00    3.25
   YES
L0013689          0    0.79940E-06    472068.7  3751932.3    524.7    3.49    4.00    3.25
   YES
L0013690          0    0.79940E-06    472068.5  3751940.9    523.9    3.49    4.00    3.25
   YES
L0013691          0    0.79940E-06    472068.4  3751949.5    522.8    3.49    4.00    3.25
   YES
L0013692          0    0.79940E-06    472068.2  3751958.0    521.8    3.49    4.00    3.25
   YES
L0013693          0    0.79940E-06    472068.0  3751966.6    520.7    3.49    4.00    3.25
   YES
L0013694          0    0.79940E-06    472067.8  3751975.2    521.0    3.49    4.00    3.25
   YES
L0013695          0    0.79940E-06    472067.7  3751983.8    521.3    3.49    4.00    3.25
   YES
L0013696          0    0.79940E-06    472067.5  3751992.4    521.5    3.49    4.00    3.25
   YES
L0013697          0    0.79940E-06    472067.3  3752001.0    521.9    3.49    4.00    3.25
   YES
L0013698          0    0.79940E-06    472067.1  3752009.6    522.3    3.49    4.00    3.25
   YES
L0013699          0    0.79940E-06    472067.0  3752018.2    522.7    3.49    4.00    3.25
   YES
```

                                                  *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	SCALAR VARY BY
L0013700	0	0.79940E-06	472066.8	3752026.8	523.0	3.49	4.00	3.25	YES
L0013701	0	0.79940E-06	472066.6	3752035.3	522.9	3.49	4.00	3.25	YES
L0013702	0	0.79940E-06	472066.4	3752043.9	522.8	3.49	4.00	3.25	YES
L0013703	0	0.79940E-06	472066.3	3752052.5	522.7	3.49	4.00	3.25	YES
L0013704	0	0.79940E-06	472066.1	3752061.1	522.8	3.49	4.00	3.25	YES
L0013705	0	0.79940E-06	472065.9	3752069.7	523.2	3.49	4.00	3.25	YES
L0013706	0	0.79940E-06	472065.7	3752078.3	523.5	3.49	4.00	3.25	YES
L0013707	0	0.79940E-06	472065.6	3752086.9	523.8	3.49	4.00	3.25	YES
L0013708	0	0.79940E-06	472065.4	3752095.5	523.9	3.49	4.00	3.25	YES
L0013709	0	0.79940E-06	472065.2	3752104.0	524.0	3.49	4.00	3.25	YES
L0013710	0	0.79940E-06	472065.0	3752112.6	524.1	3.49	4.00	3.25	YES
L0013711	0	0.79940E-06	472064.9	3752121.2	524.0	3.49	4.00	3.25	YES
L0013712	0	0.79940E-06	472064.7	3752129.8	523.7	3.49	4.00	3.25	YES
L0013713	0	0.79940E-06	472064.5	3752138.4	523.4	3.49	4.00	3.25	YES
L0013714	0	0.79940E-06	472064.3	3752147.0	523.2	3.49	4.00	3.25	YES
L0013715	0	0.79940E-06	472064.2	3752155.6	522.7	3.49	4.00	3.25	YES
L0013716	0	0.79940E-06	472064.0	3752164.2	522.3	3.49	4.00	3.25	YES
L0013717	0	0.79940E-06	472063.8	3752172.8	521.8	3.49	4.00	3.25	YES
L0013718	0	0.79940E-06	472063.6	3752181.3	521.5	3.49	4.00	3.25	YES
L0013719	0	0.79940E-06	472063.5	3752189.9	521.3	3.49	4.00	3.25	YES
L0013720	0	0.79940E-06	472063.3	3752198.5	521.1	3.49	4.00	3.25	YES
L0013721	0	0.79940E-06	472063.1	3752207.1	520.9	3.49	4.00	3.25	YES
L0013722	0	0.79940E-06	472063.0	3752215.7	520.6	3.49	4.00	3.25	YES
L0013723	0	0.79940E-06	472056.8	3752218.2	520.6	3.49	4.00	3.25	YES

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L0013724       0   0.79940E-06  472048.2 3752218.3   520.6     3.49      4.00      3.25
YES
L0013725       0   0.79940E-06  472039.6 3752218.3   520.6     3.49      4.00      3.25
YES
L0013726       0   0.79940E-06  472031.0 3752218.4   520.6     3.49      4.00      3.25
YES
L0013727       0   0.79940E-06  472022.4 3752218.4   520.0     3.49      4.00      3.25
YES
L0013728       0   0.79940E-06  472013.9 3752218.5   519.2     3.49      4.00      3.25
YES
L0013729       0   0.79940E-06  472005.3 3752218.5   518.5     3.49      4.00      3.25
YES
L0013730       0   0.79940E-06  471996.7 3752218.5   518.0     3.49      4.00      3.25
YES
L0013731       0   0.79940E-06  471988.1 3752218.6   517.8     3.49      4.00      3.25
YES
L0013732       0   0.79940E-06  471979.5 3752218.6   517.7     3.49      4.00      3.25
YES
L0013733       0   0.79940E-06  471970.9 3752218.7   517.6     3.49      4.00      3.25
YES
L0013734       0   0.79940E-06  471962.3 3752218.7   517.8     3.49      4.00      3.25
YES
L0013735       0   0.79940E-06  471953.7 3752218.8   518.1     3.49      4.00      3.25
YES
L0013736       0   0.79940E-06  471945.1 3752218.8   518.4     3.49      4.00      3.25
YES
L0013737       0   0.79940E-06  471936.5 3752218.9   518.7     3.49      4.00      3.25
YES
L0013738       0   0.79940E-06  471928.0 3752218.9   519.0     3.49      4.00      3.25
YES
L0013739       0   0.79940E-06  471919.4 3752219.0   519.3     3.49      4.00      3.25
YES
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

```
                NUMBER EMISSION RATE                  BASE    RELEASE    INIT.     INIT.
                URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)      X        Y    ELEV.   HEIGHT     SY        SZ
   SOURCE  SCALAR VARY
     ID     CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0013740       0   0.79940E-06  471910.8 3752219.0   519.5     3.49      4.00      3.25
YES
L0013741       0   0.79940E-06  471902.2 3752219.1   519.6     3.49      4.00      3.25
YES
L0013742       0   0.79940E-06  471893.6 3752219.1   519.6     3.49      4.00      3.25
YES
L0013743       0   0.79940E-06  471885.0 3752219.2   519.6     3.49      4.00      3.25
YES
L0013744       0   0.79940E-06  471876.4 3752219.2   519.5     3.49      4.00      3.25
YES
L0013745       0   0.79940E-06  471867.8 3752219.3   519.3     3.49      4.00      3.25
YES
L0013746       0   0.79940E-06  471859.2 3752219.3   519.2     3.49      4.00      3.25
YES
```

| L0013747 | 0 | 0.79940E-06 | 471850.7 | 3752219.3 | 519.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013748 | 0 | 0.79940E-06 | 471842.1 | 3752219.4 | 518.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013749 | 0 | 0.79940E-06 | 471833.5 | 3752219.4 | 518.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013750 | 0 | 0.79940E-06 | 471824.9 | 3752219.5 | 517.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013751 | 0 | 0.79940E-06 | 471823.2 | 3752212.7 | 517.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013752 | 0 | 0.79940E-06 | 471823.3 | 3752204.1 | 518.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013753 | 0 | 0.79940E-06 | 471823.4 | 3752195.5 | 518.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013754 | 0 | 0.79940E-06 | 471823.6 | 3752186.9 | 519.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013755 | 0 | 0.79940E-06 | 471823.7 | 3752178.3 | 520.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013756 | 0 | 0.79940E-06 | 471823.8 | 3752169.7 | 520.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013757 | 0 | 0.79940E-06 | 471823.9 | 3752161.1 | 521.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013758 | 0 | 0.79940E-06 | 471824.0 | 3752152.5 | 521.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013759 | 0 | 0.79940E-06 | 471824.1 | 3752143.9 | 522.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013760 | 0 | 0.79940E-06 | 471824.2 | 3752135.3 | 523.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013761 | 0 | 0.79940E-06 | 471824.3 | 3752126.8 | 524.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013762 | 0 | 0.79940E-06 | 471824.4 | 3752118.2 | 525.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013763 | 0 | 0.79940E-06 | 471824.5 | 3752109.6 | 525.4 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013764 | 0 | 0.79940E-06 | 471824.6 | 3752101.0 | 525.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013765 | 0 | 0.79940E-06 | 471824.8 | 3752092.4 | 526.1 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013766 | 0 | 0.79940E-06 | 471824.9 | 3752083.8 | 526.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013767 | 0 | 0.79940E-06 | 471825.0 | 3752075.2 | 526.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013768 | 0 | 0.79940E-06 | 471825.1 | 3752066.6 | 527.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013769 | 0 | 0.79940E-06 | 471825.2 | 3752058.0 | 527.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013770 | 0 | 0.79940E-06 | 471825.3 | 3752049.5 | 527.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013771 | 0 | 0.79940E-06 | 471825.4 | 3752040.9 | 528.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013772 | 0 | 0.79940E-06 | 471825.5 | 3752032.3 | 528.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013773 | 0 | 0.79940E-06 | 471825.6 | 3752023.7 | 529.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013774 | 0 | 0.79940E-06 | 471825.7 | 3752015.1 | 529.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013775 | 0 | 0.79940E-06 | 471825.8 | 3752006.5 | 530.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013776 | 0 | 0.79940E-06 | 471826.0 | 3751997.9 | 531.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013777 | 0 | 0.79940E-06 | 471826.1 | 3751989.3 | 531.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013778 | 0 | 0.79940E-06 | 471826.2 | 3751980.7 | 532.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0013779 | 0 | 0.79940E-06 | 471826.3 | 3751972.2 | 532.6 | 3.49 | 4.00 | 3.25 |
| YES |

FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 10/25/23
*** AERMET - VERSION 16216 ***
*** *** 11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE (METERS)	EMISSION RATE EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0013780 YES	0		0.79940E-06	471826.4	3751963.6	533.1	3.49	4.00	3.25
L0013781 YES	0		0.79940E-06	471826.5	3751955.0	533.7	3.49	4.00	3.25
L0013782 YES	0		0.79940E-06	471826.6	3751946.4	534.3	3.49	4.00	3.25
L0013783 YES	0		0.79940E-06	471826.7	3751937.8	534.9	3.49	4.00	3.25
L0013784 YES	0		0.79940E-06	471826.8	3751929.2	535.3	3.49	4.00	3.25
L0013785 YES	0		0.79940E-06	471826.9	3751920.6	535.7	3.49	4.00	3.25
L0013786 YES	0		0.79940E-06	471827.0	3751912.0	536.0	3.49	4.00	3.25
L0011362 YES	0		0.68590E-07	471804.5	3751645.8	537.3	3.49	4.00	3.25
L0011363 YES	0		0.68590E-07	471813.1	3751646.0	537.9	3.49	4.00	3.25
L0011364 YES	0		0.68590E-07	471821.7	3751646.2	538.5	3.49	4.00	3.25
L0011365 YES	0		0.68590E-07	471824.5	3751652.1	538.8	3.49	4.00	3.25
L0011366 YES	0		0.68590E-07	471824.6	3751660.7	539.0	3.49	4.00	3.25
L0011367 YES	0		0.68590E-07	471824.6	3751669.3	539.1	3.49	4.00	3.25
L0011368 YES	0		0.68590E-07	471824.7	3751677.9	538.8	3.49	4.00	3.25
L0011369 YES	0		0.68590E-07	471824.8	3751686.5	538.5	3.49	4.00	3.25
L0011370 YES	0		0.68590E-07	471824.9	3751695.1	538.2	3.49	4.00	3.25
L0011371 YES	0		0.68590E-07	471824.9	3751703.7	538.2	3.49	4.00	3.25
L0011372 YES	0		0.68590E-07	471825.0	3751712.2	538.2	3.49	4.00	3.25
L0011373 YES	0		0.68590E-07	471825.1	3751720.8	538.2	3.49	4.00	3.25
L0011374 YES	0		0.68590E-07	471825.2	3751729.4	538.2	3.49	4.00	3.25
L0011375 YES	0		0.68590E-07	471825.2	3751738.0	538.2	3.49	4.00	3.25
L0011376 YES	0		0.68590E-07	471825.3	3751746.6	538.2	3.49	4.00	3.25
L0011377 YES	0		0.68590E-07	471825.4	3751755.2	538.2	3.49	4.00	3.25

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L0011378          0   0.68590E-07   471825.5 3751763.8   538.2     3.49     4.00     3.25
YES
L0011379          0   0.68590E-07   471825.5 3751772.4   538.2     3.49     4.00     3.25
YES
L0011380          0   0.68590E-07   471825.6 3751781.0   538.2     3.49     4.00     3.25
YES
L0011381          0   0.68590E-07   471825.7 3751789.6   538.2     3.49     4.00     3.25
YES
L0011382          0   0.68590E-07   471825.8 3751798.1   538.2     3.49     4.00     3.25
YES
L0011383          0   0.68590E-07   471825.8 3751806.7   538.2     3.49     4.00     3.25
YES
L0011384          0   0.68590E-07   471825.9 3751815.3   538.2     3.49     4.00     3.25
YES
L0011385          0   0.68590E-07   471826.0 3751823.9   537.9     3.49     4.00     3.25
YES
L0011386          0   0.68590E-07   471826.1 3751832.5   537.6     3.49     4.00     3.25
YES
L0011387          0   0.68590E-07   471826.1 3751841.1   537.2     3.49     4.00     3.25
YES
L0011388          0   0.68590E-07   471826.2 3751849.7   536.9     3.49     4.00     3.25
YES
L0011389          0   0.68590E-07   471826.3 3751858.3   536.7     3.49     4.00     3.25
YES
L0011390          0   0.68590E-07   471826.4 3751866.9   536.5     3.49     4.00     3.25
YES
L0011391          0   0.84410E-07   471470.8 3751499.2   534.2     3.49     4.00     3.25
YES
L0011392          0   0.84410E-07   471471.0 3751490.6   534.5     3.49     4.00     3.25
YES
L0011393          0   0.84410E-07   471471.2 3751482.0   534.7     3.49     4.00     3.25
YES
L0011394          0   0.84410E-07   471471.4 3751473.4   534.9     3.49     4.00     3.25
YES
```

▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0011395	0	0.84410E-07	471471.6	3751464.8	535.0	3.49	4.00	3.25
YES								
L0011396	0	0.84410E-07	471471.8	3751456.3	535.2	3.49	4.00	3.25
YES								
L0011397	0	0.84410E-07	471472.0	3751447.7	535.0	3.49	4.00	3.25
YES								
L0011398	0	0.84410E-07	471472.2	3751439.1	534.8	3.49	4.00	3.25
YES								
L0011399	0	0.84410E-07	471472.4	3751430.5	534.6	3.49	4.00	3.25
YES								
L0011400	0	0.84410E-07	471472.7	3751421.9	534.4	3.49	4.00	3.25
YES								

L0011401	0	0.84410E-07	471472.9	3751413.3	534.1	3.49	4.00	3.25
YES								
L0011402	0	0.84410E-07	471473.1	3751404.7	533.8	3.49	4.00	3.25
YES								
L0011403	0	0.84410E-07	471473.3	3751396.1	533.5	3.49	4.00	3.25
YES								
L0011404	0	0.84410E-07	471473.5	3751387.6	533.1	3.49	4.00	3.25
YES								
L0011405	0	0.84410E-07	471473.7	3751379.0	532.7	3.49	4.00	3.25
YES								
L0011406	0	0.84410E-07	471473.9	3751370.4	532.2	3.49	4.00	3.25
YES								
L0011407	0	0.84410E-07	471474.1	3751361.8	531.8	3.49	4.00	3.25
YES								
L0011408	0	0.84410E-07	471474.3	3751353.2	531.3	3.49	4.00	3.25
YES								
L0011409	0	0.84410E-07	471474.5	3751344.6	530.9	3.49	4.00	3.25
YES								
L0011410	0	0.84410E-07	471474.7	3751336.0	530.4	3.49	4.00	3.25
YES								
L0011411	0	0.84410E-07	471474.9	3751327.4	529.9	3.49	4.00	3.25
YES								
L0011412	0	0.84410E-07	471475.1	3751318.9	529.3	3.49	4.00	3.25
YES								
L0011413	0	0.84410E-07	471475.3	3751310.3	528.7	3.49	4.00	3.25
YES								
L0011414	0	0.84410E-07	471475.5	3751301.7	528.2	3.49	4.00	3.25
YES								
L0011415	0	0.84410E-07	471475.7	3751293.1	527.8	3.49	4.00	3.25
YES								
L0011416	0	0.84410E-07	471475.9	3751284.5	527.4	3.49	4.00	3.25
YES								
L0011417	0	0.84410E-07	471476.1	3751275.9	527.1	3.49	4.00	3.25
YES								
L0011418	0	0.84410E-07	471476.4	3751267.3	526.8	3.49	4.00	3.25
YES								
L0011419	0	0.84410E-07	471476.6	3751258.7	526.5	3.49	4.00	3.25
YES								
L0011420	0	0.86710E-07	471418.4	3751499.2	535.9	3.49	4.00	3.25
YES								
L0011421	0	0.86710E-07	471418.5	3751490.6	536.2	3.49	4.00	3.25
YES								
L0011422	0	0.86710E-07	471418.6	3751482.0	536.5	3.49	4.00	3.25
YES								
L0011423	0	0.86710E-07	471418.8	3751473.4	536.6	3.49	4.00	3.25
YES								
L0011424	0	0.86710E-07	471418.9	3751464.8	536.8	3.49	4.00	3.25
YES								
L0011425	0	0.86710E-07	471419.1	3751456.3	537.0	3.49	4.00	3.25
YES								
L0011426	0	0.86710E-07	471419.2	3751447.7	536.8	3.49	4.00	3.25
YES								
L0011427	0	0.86710E-07	471419.3	3751439.1	536.6	3.49	4.00	3.25
YES								
L0011428	0	0.86710E-07	471419.5	3751430.5	536.4	3.49	4.00	3.25
YES								
L0011429	0	0.86710E-07	471419.6	3751421.9	536.2	3.49	4.00	3.25
YES								
L0011430	0	0.86710E-07	471419.7	3751413.3	535.9	3.49	4.00	3.25
YES								
L0011431	0	0.86710E-07	471419.9	3751404.7	535.6	3.49	4.00	3.25
YES								
L0011432	0	0.86710E-07	471420.0	3751396.1	535.3	3.49	4.00	3.25
YES								
L0011433	0	0.86710E-07	471420.2	3751387.5	534.7	3.49	4.00	3.25
YES								

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L0011434         0   0.86710E-07   471420.3 3751379.0   534.1     3.49      4.00      3.25
  YES
```
🔢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
- - - - - - - - - - - - -

L0011435   0   0.86710E-07   471420.4 3751370.4   533.5   3.49   4.00   3.25
  YES
L0011436   0   0.86710E-07   471420.6 3751361.8   532.9   3.49   4.00   3.25
  YES
L0011437   0   0.86710E-07   471420.7 3751353.2   532.1   3.49   4.00   3.25
  YES
L0011438   0   0.86710E-07   471420.9 3751344.6   531.4   3.49   4.00   3.25
  YES
L0011439   0   0.86710E-07   471421.0 3751336.0   530.7   3.49   4.00   3.25
  YES
L0011440   0   0.86710E-07   471421.1 3751327.4   530.1   3.49   4.00   3.25
  YES
L0011441   0   0.86710E-07   471421.3 3751318.8   529.5   3.49   4.00   3.25
  YES
L0011442   0   0.86710E-07   471421.4 3751310.2   529.0   3.49   4.00   3.25
  YES
L0011443   0   0.86710E-07   471421.5 3751301.7   528.3   3.49   4.00   3.25
  YES
L0011444   0   0.86710E-07   471421.7 3751293.1   527.5   3.49   4.00   3.25
  YES
L0011445   0   0.86710E-07   471421.8 3751284.5   526.7   3.49   4.00   3.25
  YES
L0011446   0   0.86710E-07   471422.0 3751275.9   525.9   3.49   4.00   3.25
  YES
L0011447   0   0.86710E-07   471422.1 3751267.3   525.4   3.49   4.00   3.25
  YES
L0011448   0   0.86480E-07   471107.1 3752271.6   511.0   3.49   4.00   3.25
  YES
L0011449   0   0.86480E-07   471107.1 3752280.2   510.6   3.49   4.00   3.25
  YES
L0011450   0   0.86480E-07   471107.1 3752288.8   510.2   3.49   4.00   3.25
  YES
L0011451   0   0.86480E-07   471107.1 3752297.4   509.8   3.49   4.00   3.25
  YES
L0011452   0   0.86480E-07   471114.3 3752298.8   510.5   3.49   4.00   3.25
  YES
L0011453   0   0.86480E-07   471122.9 3752298.8   511.3   3.49   4.00   3.25
  YES
L0011454   0   0.86480E-07   471131.5 3752298.8   511.9   3.49   4.00   3.25
  YES
L0011455   0   0.86480E-07   471140.1 3752298.9   512.0   3.49   4.00   3.25
  YES
L0011456   0   0.86480E-07   471148.7 3752298.9   512.0   3.49   4.00   3.25
  YES
```

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L0011457          0   0.86480E-07  471157.3 3752298.9   512.1    3.49     4.00     3.25
YES
L0011458          0   0.86480E-07  471165.9 3752298.9   512.5    3.49     4.00     3.25
YES
L0011459          0   0.86480E-07  471174.5 3752299.0   513.0    3.49     4.00     3.25
YES
L0011460          0   0.86480E-07  471183.1 3752299.0   513.5    3.49     4.00     3.25
YES
L0011461          0   0.86480E-07  471191.6 3752299.0   513.9    3.49     4.00     3.25
YES
L0011462          0   0.86480E-07  471200.2 3752299.1   513.9    3.49     4.00     3.25
YES
L0011463          0   0.86480E-07  471208.8 3752299.1   513.9    3.49     4.00     3.25
YES
L0011464          0   0.86480E-07  471217.4 3752299.1   513.9    3.49     4.00     3.25
YES
L0011465          0   0.86480E-07  471226.0 3752299.1   513.5    3.49     4.00     3.25
YES
L0011466          0   0.86480E-07  471234.6 3752299.2   512.9    3.49     4.00     3.25
YES
L0011467          0   0.86480E-07  471243.2 3752299.2   512.4    3.49     4.00     3.25
YES
L0011468          0   0.86480E-07  471251.8 3752299.2   512.1    3.49     4.00     3.25
YES
L0011469          0   0.86480E-07  471260.4 3752299.2   512.4    3.49     4.00     3.25
YES
L0011470          0   0.86480E-07  471269.0 3752299.3   512.6    3.49     4.00     3.25
YES
L0011471          0   0.86480E-07  471277.5 3752299.3   512.9    3.49     4.00     3.25
YES
L0011472          0   0.86480E-07  471286.1 3752299.3   513.0    3.49     4.00     3.25
YES
L0011473          0   0.86480E-07  471294.7 3752299.3   512.9    3.49     4.00     3.25
YES
L0011474          0   0.86480E-07  471303.3 3752299.4   512.9    3.49     4.00     3.25
YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                                           *** VOLUME SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)     X        Y       ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
   ID       CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0011475          0   0.86480E-07  471311.9 3752299.4   512.9    3.49     4.00     3.25
YES
L0011476          0   0.86480E-07  471317.4 3752296.3   513.0    3.49     4.00     3.25
YES
L0011477          0   0.86480E-07  471317.4 3752287.7   513.8    3.49     4.00     3.25
YES
L0011478          0   0.86480E-07  471317.4 3752279.2   514.5    3.49     4.00     3.25
YES
L0011479          0   0.86060E-07  471343.6 3752274.9   516.0    3.49     4.00     3.25
YES
```

L0011480	0	0.86060E-07	471343.6	3752283.5	514.9	3.49	4.00	3.25
YES								
L0011481	0	0.86060E-07	471343.6	3752292.1	513.8	3.49	4.00	3.25
YES								
L0011482	0	0.86060E-07	471343.6	3752300.7	513.1	3.49	4.00	3.25
YES								
L0011483	0	0.86060E-07	471352.1	3752300.8	513.7	3.49	4.00	3.25
YES								
L0011484	0	0.86060E-07	471360.7	3752300.9	514.3	3.49	4.00	3.25
YES								
L0011485	0	0.86060E-07	471369.3	3752301.1	514.8	3.49	4.00	3.25
YES								
L0011486	0	0.86060E-07	471377.9	3752301.2	514.8	3.49	4.00	3.25
YES								
L0011487	0	0.86060E-07	471386.5	3752301.3	514.7	3.49	4.00	3.25
YES								
L0011488	0	0.86060E-07	471395.1	3752301.4	514.6	3.49	4.00	3.25
YES								
L0011489	0	0.86060E-07	471403.7	3752301.5	514.5	3.49	4.00	3.25
YES								
L0011490	0	0.86060E-07	471412.3	3752301.6	514.6	3.49	4.00	3.25
YES								
L0011491	0	0.86060E-07	471420.8	3752301.7	514.6	3.49	4.00	3.25
YES								
L0011492	0	0.86060E-07	471429.4	3752301.8	514.6	3.49	4.00	3.25
YES								
L0011493	0	0.86060E-07	471438.0	3752301.9	515.4	3.49	4.00	3.25
YES								
L0011494	0	0.86060E-07	471446.6	3752302.0	516.1	3.49	4.00	3.25
YES								
L0011495	0	0.86060E-07	471455.2	3752302.1	516.8	3.49	4.00	3.25
YES								
L0011496	0	0.86060E-07	471463.8	3752302.2	517.5	3.49	4.00	3.25
YES								
L0011497	0	0.86060E-07	471472.4	3752302.3	518.0	3.49	4.00	3.25
YES								
L0011498	0	0.86060E-07	471481.0	3752302.5	518.6	3.49	4.00	3.25
YES								
L0011499	0	0.86060E-07	471489.6	3752302.6	519.2	3.49	4.00	3.25
YES								
L0011500	0	0.86060E-07	471498.2	3752302.7	519.7	3.49	4.00	3.25
YES								
L0011501	0	0.86060E-07	471506.7	3752302.8	520.1	3.49	4.00	3.25
YES								
L0011502	0	0.86060E-07	471515.3	3752302.9	520.6	3.49	4.00	3.25
YES								
L0011503	0	0.86060E-07	471523.9	3752303.0	520.8	3.49	4.00	3.25
YES								
L0011504	0	0.86060E-07	471532.5	3752303.1	520.8	3.49	4.00	3.25
YES								
L0011505	0	0.86060E-07	471541.1	3752303.2	520.8	3.49	4.00	3.25
YES								
L0011506	0	0.86060E-07	471549.7	3752303.3	520.8	3.49	4.00	3.25
YES								
L0011507	0	0.86060E-07	471552.1	3752297.0	520.9	3.49	4.00	3.25
YES								
L0011508	0	0.86060E-07	471552.3	3752288.4	521.4	3.49	4.00	3.25
YES								
L0011509	0	0.86060E-07	471552.4	3752279.8	521.9	3.49	4.00	3.25
YES								
L0011510	0	0.66330E-07	471580.7	3752278.2	519.9	3.49	4.00	3.25
YES								
L0011511	0	0.66330E-07	471580.5	3752286.8	519.9	3.49	4.00	3.25
YES								
L0011512	0	0.66330E-07	471580.2	3752295.3	519.9	3.49	4.00	3.25
YES								

```
L0011513          0   0.66330E-07  471582.6 3752301.4   519.5      3.49      4.00     3.25
  YES
L0011514          0   0.66330E-07  471591.2 3752301.5   519.0      3.49      4.00     3.25
  YES
```

🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0011515	0	0.66330E-07	471599.8	3752301.5	518.5	3.49	4.00	3.25
YES								
L0011516	0	0.66330E-07	471608.4	3752301.6	518.1	3.49	4.00	3.25
YES								
L0011517	0	0.66330E-07	471617.0	3752301.6	518.2	3.49	4.00	3.25
YES								
L0011518	0	0.66330E-07	471625.6	3752301.7	518.4	3.49	4.00	3.25
YES								
L0011519	0	0.66330E-07	471634.2	3752301.7	518.7	3.49	4.00	3.25
YES								
L0011520	0	0.66330E-07	471642.8	3752301.8	519.0	3.49	4.00	3.25
YES								
L0011521	0	0.66330E-07	471651.4	3752301.8	519.5	3.49	4.00	3.25
YES								
L0011522	0	0.66330E-07	471660.0	3752301.9	520.1	3.49	4.00	3.25
YES								
L0011523	0	0.66330E-07	471668.5	3752302.0	520.6	3.49	4.00	3.25
YES								
L0011524	0	0.66330E-07	471677.1	3752302.0	520.4	3.49	4.00	3.25
YES								
L0011525	0	0.66330E-07	471685.7	3752302.1	520.1	3.49	4.00	3.25
YES								
L0011526	0	0.66330E-07	471694.3	3752302.1	519.8	3.49	4.00	3.25
YES								
L0011527	0	0.66330E-07	471702.9	3752302.2	519.5	3.49	4.00	3.25
YES								
L0011528	0	0.66330E-07	471711.5	3752302.2	519.3	3.49	4.00	3.25
YES								
L0011529	0	0.66330E-07	471720.1	3752302.3	519.1	3.49	4.00	3.25
YES								
L0011530	0	0.66330E-07	471728.7	3752302.3	518.8	3.49	4.00	3.25
YES								
L0011531	0	0.66330E-07	471737.3	3752302.4	518.8	3.49	4.00	3.25
YES								
L0011532	0	0.66330E-07	471745.9	3752302.4	518.8	3.49	4.00	3.25
YES								
L0011533	0	0.66330E-07	471754.4	3752302.5	518.8	3.49	4.00	3.25
YES								
L0011534	0	0.66330E-07	471763.0	3752302.6	518.8	3.49	4.00	3.25
YES								
L0011535	0	0.66330E-07	471771.6	3752302.6	518.9	3.49	4.00	3.25
YES								

```
L0011536          0   0.66330E-07  471780.2 3752302.7  518.9    3.49    4.00    3.25
YES
L0011537          0   0.66330E-07  471784.5 3752298.4  519.0    3.49    4.00    3.25
YES
L0011538          0   0.66330E-07  471784.5 3752289.8  519.1    3.49    4.00    3.25
YES
L0011539          0   0.66330E-07  471784.5 3752281.2  519.2    3.49    4.00    3.25
YES
L0011540          0   0.86350E-07  471784.4 3752282.8  519.2    3.49    4.00    3.25
YES
L0011541          0   0.86350E-07  471784.1 3752291.3  519.1    3.49    4.00    3.25
YES
L0011542          0   0.86350E-07  471783.9 3752299.9  519.0    3.49    4.00    3.25
YES
L0011543          0   0.86350E-07  471789.0 3752303.4  519.0    3.49    4.00    3.25
YES
L0011544          0   0.86350E-07  471797.6 3752303.4  517.1    3.49    4.00    3.25
YES
L0011545          0   0.86350E-07  471806.2 3752303.4  515.1    3.49    4.00    3.25
YES
L0011546          0   0.86350E-07  471814.8 3752303.4  513.1    3.49    4.00    3.25
YES
L0011547          0   0.86350E-07  471823.4 3752303.4  512.2    3.49    4.00    3.25
YES
L0011548          0   0.86350E-07  471831.9 3752303.5  512.7    3.49    4.00    3.25
YES
L0011549          0   0.86350E-07  471840.5 3752303.5  513.2    3.49    4.00    3.25
YES
L0011550          0   0.86350E-07  471849.1 3752303.5  513.7    3.49    4.00    3.25
YES
L0011551          0   0.86350E-07  471857.7 3752303.5  514.4    3.49    4.00    3.25
YES
L0011552          0   0.86350E-07  471866.3 3752303.5  515.0    3.49    4.00    3.25
YES
L0011553          0   0.86350E-07  471874.9 3752303.6  515.6    3.49    4.00    3.25
YES
L0011554          0   0.86350E-07  471883.5 3752303.6  516.1    3.49    4.00    3.25
YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0011555	0	0.86350E-07	471892.1	3752303.6	516.3	3.49	4.00	3.25
YES								
L0011556	0	0.86350E-07	471900.7	3752303.6	516.5	3.49	4.00	3.25
YES								
L0011557	0	0.86350E-07	471909.3	3752303.7	516.8	3.49	4.00	3.25
YES								
L0011558	0	0.86350E-07	471917.8	3752303.7	516.7	3.49	4.00	3.25
YES								

L0011559	0	0.86350E-07	471926.4	3752303.7	516.6	3.49	4.00	3.25
YES								
L0011560	0	0.86350E-07	471935.0	3752303.7	516.6	3.49	4.00	3.25
YES								
L0011561	0	0.86350E-07	471943.6	3752303.7	516.5	3.49	4.00	3.25
YES								
L0011562	0	0.86350E-07	471952.2	3752303.8	516.3	3.49	4.00	3.25
YES								
L0011563	0	0.86350E-07	471960.8	3752303.8	516.1	3.49	4.00	3.25
YES								
L0011564	0	0.86350E-07	471969.4	3752303.8	516.0	3.49	4.00	3.25
YES								
L0011565	0	0.86350E-07	471978.0	3752303.8	515.8	3.49	4.00	3.25
YES								
L0011566	0	0.86350E-07	471986.6	3752303.8	515.6	3.49	4.00	3.25
YES								
L0011567	0	0.86350E-07	471995.2	3752303.9	515.4	3.49	4.00	3.25
YES								
L0011568	0	0.86350E-07	472003.7	3752303.9	515.1	3.49	4.00	3.25
YES								
L0011569	0	0.86350E-07	472012.3	3752303.9	514.8	3.49	4.00	3.25
YES								
L0011570	0	0.86350E-07	472020.9	3752303.9	514.6	3.49	4.00	3.25
YES								
L0011571	0	0.86350E-07	472029.5	3752303.9	514.3	3.49	4.00	3.25
YES								
L0011572	0	0.86350E-07	472038.1	3752304.0	514.1	3.49	4.00	3.25
YES								
L0011573	0	0.86350E-07	472046.7	3752304.0	513.8	3.49	4.00	3.25
YES								
L0011574	0	0.41110E-07	471104.2	3752254.7	510.8	3.49	4.00	3.25
YES								
L0011575	0	0.41110E-07	471096.6	3752258.7	510.5	3.49	4.00	3.25
YES								
L0011576	0	0.41110E-07	471089.0	3752262.7	509.9	3.49	4.00	3.25
YES								
L0011577	0	0.41110E-07	471088.0	3752255.5	509.8	3.49	4.00	3.25
YES								
L0011578	0	0.41110E-07	471088.0	3752247.0	509.7	3.49	4.00	3.25
YES								
L0011579	0	0.41110E-07	471087.9	3752238.4	509.6	3.49	4.00	3.25
YES								
L0011580	0	0.41110E-07	471087.9	3752229.8	509.5	3.49	4.00	3.25
YES								
L0011581	0	0.41110E-07	471087.8	3752221.2	509.4	3.49	4.00	3.25
YES								
L0011582	0	0.41110E-07	471087.7	3752212.6	509.3	3.49	4.00	3.25
YES								
L0011583	0	0.41110E-07	471087.7	3752204.0	509.4	3.49	4.00	3.25
YES								
L0011584	0	0.41110E-07	471087.6	3752195.4	509.8	3.49	4.00	3.25
YES								
L0011585	0	0.41110E-07	471087.6	3752186.8	510.3	3.49	4.00	3.25
YES								
L0011586	0	0.41110E-07	471087.5	3752178.2	510.7	3.49	4.00	3.25
YES								
L0011587	0	0.41110E-07	471087.4	3752169.6	511.2	3.49	4.00	3.25
YES								
L0011588	0	0.41110E-07	471087.4	3752161.1	511.7	3.49	4.00	3.25
YES								
L0011589	0	0.41110E-07	471087.3	3752152.5	512.2	3.49	4.00	3.25
YES								
L0011590	0	0.41110E-07	471087.3	3752143.9	512.5	3.49	4.00	3.25
YES								
L0011591	0	0.41110E-07	471090.3	3752138.4	512.4	3.49	4.00	3.25
YES								

SOURCE ID									
L0011592	0	0.41110E-07	471098.9	3752138.4	512.7	3.49	4.00	3.25	
YES									
L0011593	0	0.32020E-07	471044.9	3751936.4	514.5	3.49	4.00	3.25	
YES									
L0011594	0	0.32020E-07	471036.3	3751936.6	513.8	3.49	4.00	3.25	
YES									

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                           *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0011595	0	0.32020E-07	471027.7	3751936.8	513.2	3.49	4.00	3.25
YES								
L0011596	0	0.32020E-07	471019.4	3751938.6	512.6	3.49	4.00	3.25
YES								
L0011597	0	0.32020E-07	471016.0	3751943.4	512.4	3.49	4.00	3.25
YES								
L0011598	0	0.32020E-07	471019.2	3751951.3	512.5	3.49	4.00	3.25
YES								
L0011599	0	0.32020E-07	471022.5	3751959.3	512.5	3.49	4.00	3.25
YES								
L0011600	0	0.32020E-07	471025.8	3751967.2	512.6	3.49	4.00	3.25
YES								
L0011601	0	0.32020E-07	471029.0	3751975.1	512.9	3.49	4.00	3.25
YES								
L0011602	0	0.32020E-07	471032.3	3751983.1	513.3	3.49	4.00	3.25
YES								
L0011603	0	0.32020E-07	471035.5	3751991.0	513.7	3.49	4.00	3.25
YES								
L0011604	0	0.32020E-07	471038.8	3751999.0	514.0	3.49	4.00	3.25
YES								
L0011605	0	0.32020E-07	471042.1	3752006.9	514.5	3.49	4.00	3.25
YES								
L0011606	0	0.32020E-07	471045.3	3752014.9	514.9	3.49	4.00	3.25
YES								
L0011607	0	0.32020E-07	471048.6	3752022.8	515.2	3.49	4.00	3.25
YES								
L0011608	0	0.32020E-07	471052.6	3752028.9	515.4	3.49	4.00	3.25
YES								
L0011609	0	0.32020E-07	471060.5	3752025.5	515.7	3.49	4.00	3.25
YES								
L0011610	0	0.52760E-07	471043.8	3751831.5	512.4	3.49	4.00	3.25
YES								
L0011611	0	0.52760E-07	471035.2	3751831.5	512.9	3.49	4.00	3.25
YES								
L0011612	0	0.52760E-07	471029.0	3751829.2	513.7	3.49	4.00	3.25
YES								
L0011613	0	0.52760E-07	471029.0	3751820.6	514.2	3.49	4.00	3.25
YES								
L0011614	0	0.52760E-07	471029.1	3751812.0	514.4	3.49	4.00	3.25
YES								

```
L0011615          0    0.52760E-07   471029.1 3751803.4    514.5     3.49     4.00     3.25
   YES
L0011616          0    0.52760E-07   471029.1 3751794.8    514.6     3.49     4.00     3.25
   YES
L0011617          0    0.52760E-07   471029.2 3751786.2    514.7     3.49     4.00     3.25
   YES
L0011618          0    0.52760E-07   471029.2 3751777.6    515.1     3.49     4.00     3.25
   YES
L0011619          0    0.52760E-07   471029.3 3751769.0    515.5     3.49     4.00     3.25
   YES
L0011620          0    0.52760E-07   471029.3 3751760.4    515.8     3.49     4.00     3.25
   YES
L0011621          0    0.52760E-07   471029.4 3751751.9    516.3     3.49     4.00     3.25
   YES
L0011622          0    0.52760E-07   471029.4 3751743.3    516.7     3.49     4.00     3.25
   YES
L0011623          0    0.52760E-07   471029.4 3751734.7    517.2     3.49     4.00     3.25
   YES
L0011624          0    0.52760E-07   471029.5 3751726.1    517.7     3.49     4.00     3.25
   YES
L0011625          0    0.52760E-07   471037.6 3751725.6    518.0     3.49     4.00     3.25
   YES
L0011626          0    0.52760E-07   471046.2 3751725.6    518.3     3.49     4.00     3.25
   YES
L0011627          0    0.40230E-07   471041.7 3751685.4    520.3     3.49     4.00     3.25
   YES
L0011628          0    0.40230E-07   471033.1 3751685.9    519.9     3.49     4.00     3.25
   YES
L0011629          0    0.40230E-07   471028.5 3751682.3    520.1     3.49     4.00     3.25
   YES
L0011630          0    0.40230E-07   471028.5 3751673.7    520.7     3.49     4.00     3.25
   YES
L0011631          0    0.40230E-07   471028.5 3751665.2    521.3     3.49     4.00     3.25
   YES
L0011632          0    0.40230E-07   471028.6 3751656.6    521.5     3.49     4.00     3.25
   YES
L0011633          0    0.40230E-07   471028.6 3751648.0    521.7     3.49     4.00     3.25
   YES
L0011634          0    0.40230E-07   471028.7 3751639.4    521.9     3.49     4.00     3.25
   YES
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN SOURCE SCALAR CATS.	EMISSION RATE EMISSION RATE PART. VARY BY	(GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

```
L0011635          0    0.40230E-07   471028.7 3751630.8    521.7     3.49     4.00     3.25
   YES
L0011636          0    0.40230E-07   471028.8 3751622.2    521.4     3.49     4.00     3.25
   YES
L0011637          0    0.40230E-07   471028.8 3751613.6    521.2     3.49     4.00     3.25
   YES
```

L0011638	0	0.40230E-07	471028.9	3751605.0	521.0	3.49	4.00	3.25
YES								
L0011639	0	0.40230E-07	471028.9	3751596.4	521.2	3.49	4.00	3.25
YES								
L0011640	0	0.40230E-07	471029.4	3751588.3	521.4	3.49	4.00	3.25
YES								
L0011641	0	0.40230E-07	471038.0	3751588.1	521.9	3.49	4.00	3.25
YES								
L0011642	0	0.40230E-07	471046.6	3751587.9	522.5	3.49	4.00	3.25
YES								
L0011643	0	0.44480E-07	471143.1	3751335.8	523.4	3.49	4.00	3.25
YES								
L0011644	0	0.44480E-07	471143.1	3751344.4	523.6	3.49	4.00	3.25
YES								
L0011645	0	0.44480E-07	471143.1	3751353.0	523.7	3.49	4.00	3.25
YES								
L0011646	0	0.44480E-07	471143.2	3751361.6	523.8	3.49	4.00	3.25
YES								
L0011647	0	0.44480E-07	471143.2	3751370.2	523.9	3.49	4.00	3.25
YES								
L0011648	0	0.44480E-07	471143.2	3751378.7	523.7	3.49	4.00	3.25
YES								
L0011649	0	0.44480E-07	471143.2	3751387.3	523.6	3.49	4.00	3.25
YES								
L0011650	0	0.44480E-07	471143.3	3751395.9	523.5	3.49	4.00	3.25
YES								
L0011651	0	0.44480E-07	471143.3	3751404.5	523.7	3.49	4.00	3.25
YES								
L0011652	0	0.44480E-07	471143.3	3751413.1	524.0	3.49	4.00	3.25
YES								
L0011653	0	0.44480E-07	471143.3	3751421.7	524.3	3.49	4.00	3.25
YES								
L0011654	0	0.44480E-07	471143.4	3751430.3	524.5	3.49	4.00	3.25
YES								
L0011655	0	0.44480E-07	471143.4	3751438.9	524.6	3.49	4.00	3.25
YES								
L0011656	0	0.44480E-07	471143.4	3751447.5	524.8	3.49	4.00	3.25
YES								
L0011657	0	0.44480E-07	471143.4	3751456.1	524.9	3.49	4.00	3.25
YES								
L0011658	0	0.44480E-07	471143.5	3751464.6	524.8	3.49	4.00	3.25
YES								
L0011659	0	0.44480E-07	471143.5	3751473.2	524.7	3.49	4.00	3.25
YES								
L0011660	0	0.44480E-07	471143.5	3751481.8	524.5	3.49	4.00	3.25
YES								
L0011661	0	0.44480E-07	471143.5	3751490.4	524.5	3.49	4.00	3.25
YES								
L0011662	0	0.44480E-07	471143.5	3751499.0	524.5	3.49	4.00	3.25
YES								
VOL1	0	0.96922E-04	471182.0	3752304.1	513.4	5.00	12.84	1.40
YES HRDOW								
VOL2	0	0.96922E-04	471239.3	3752304.5	512.6	5.00	12.84	1.40
YES HRDOW								
VOL3	0	0.96922E-04	471418.6	3752307.9	514.1	5.00	12.84	1.40
YES HRDOW								
VOL4	0	0.96922E-04	471478.1	3752306.2	518.5	5.00	12.84	1.40
YES HRDOW								
VOL5	0	0.96922E-04	471654.8	3752307.9	519.4	5.00	12.84	1.40
YES HRDOW								
VOL6	0	0.96922E-04	471701.6	3752307.0	519.3	5.00	12.84	1.40
YES HRDOW								
VOL7	0	0.96922E-04	471898.7	3752304.5	516.5	5.00	12.84	1.40
YES HRDOW								
VOL8	0	0.96922E-04	471954.8	3752304.5	516.2	5.00	12.84	1.40
YES HRDOW								

```
VOL9                0    0.96922E-04  472010.8 3752304.5   514.8     5.00     12.84      1.40
   YES    HRDOW
VOL10               0    0.96922E-04  472064.4 3752303.6   513.4     5.00     12.84      1.40
   YES    HRDOW
VOL11               0    0.96922E-04  471824.8 3752143.0   522.7     5.00     12.84      1.40
   YES    HRDOW
VOL12               0    0.96922E-04  471825.6 3752089.5   526.3     5.00     12.84      1.40
   YES    HRDOW
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - -

```
VOL13               0    0.96922E-04  471827.3 3752034.3   528.7     5.00     12.84      1.40
   YES    HRDOW
VOL14               0    0.96922E-04  471828.2 3751980.7   532.3     5.00     12.84      1.40
   YES    HRDOW
VOL15               0    0.96922E-04  472066.1 3752185.5   521.2     5.00     12.84      1.40
   YES    HRDOW
VOL16               0    0.96922E-04  472066.9 3752131.1   523.3     5.00     12.84      1.40
   YES    HRDOW
VOL17               0    0.96922E-04  472067.8 3752074.2   522.9     5.00     12.84      1.40
   YES    HRDOW
VOL18               0    0.96922E-04  472067.8 3752015.6   522.4     5.00     12.84      1.40
   YES    HRDOW
VOL19               0    0.96922E-04  471830.7 3751782.8   538.4     5.00     12.84      1.40
   YES    HRDOW
VOL20               0    0.96922E-04  471831.6 3751722.4   538.4     5.00     12.84      1.40
   YES    HRDOW
VOL21               0    0.96922E-04  471277.6 3752206.8   518.0     5.00     12.84      1.40
   YES    HRDOW
VOL22               0    0.96922E-04  471334.5 3752208.5   519.7     5.00     12.84      1.40
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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                    PAGE 60
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

                 NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
                 URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - - - -

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▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
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                    PAGE   61
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

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                   PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                   *** SOURCE IDs DEFINING SOURCE GROUPS ***

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                  PAGE  63
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

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■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                 *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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██ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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       VOL3       , VOL4       ,

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       VOL11      , VOL12      ,
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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       VOL19      , VOL20      ,

       VOL21      , VOL22      , VOL23      , VOL24      , VOL25      , VOL26      ,
       VOL27      , VOL28      ,

       VOL29      , VOL30      , VOL31      , VOL32      , VOL33      , VOL34      ,
       VOL35      , VOL36      ,

       VOL37      , VOL38      , VOL39      , VOL40      , VOL41      , VOL42      ,
       VOL43      , VOL44      ,

       VOL45      , VOL46      , VOL47      , VOL48      , VOL49      , VOL50      ,
       VOL51      , VOL52      ,

       VOL53      , VOL54      , VOL55      , VOL56      , VOL57      , VOL58      ,
       VOL59      , VOL60      ,

       VOL61      , VOL62      , VOL63      , VOL64      , VOL65      , VOL66      ,
       VOL67      , VOL68      ,

       VOL69      , VOL70      , VOL71      , VOL72      , VOL73      , VOL74      ,
       VOL75      , VOL76      ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP   SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                        *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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         L0013764   , L0013765   , L0013766   , L0013767   , L0013768   , L0013769   ,
         L0013770   , L0013771   ,

         L0013772   , L0013773   , L0013774   , L0013775   , L0013776   , L0013777   ,
         L0013778   , L0013779   ,
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                 *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP   SOURCE IDs
 --------   ---------   ----------


```
         L0013780   , L0013781   , L0013782   , L0013783   , L0013784   , L0013785   ,
         L0013786   , L0011362   ,

         L0011363   , L0011364   , L0011365   , L0011366   , L0011367   , L0011368   ,
         L0011369   , L0011370   ,

         L0011371   , L0011372   , L0011373   , L0011374   , L0011375   , L0011376   ,
         L0011377   , L0011378   ,

         L0011379   , L0011380   , L0011381   , L0011382   , L0011383   , L0011384   ,
         L0011385   , L0011386   ,
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          L0011393   , L0011394   ,

          L0011395   , L0011396   , L0011397   , L0011398   , L0011399   , L0011400   ,
          L0011401   , L0011402   ,

          L0011403   , L0011404   , L0011405   , L0011406   , L0011407   , L0011408   ,
          L0011409   , L0011410   ,

          L0011411   , L0011412   , L0011413   , L0011414   , L0011415   , L0011416   ,
          L0011417   , L0011418   ,

          L0011419   , L0011420   , L0011421   , L0011422   , L0011423   , L0011424   ,
          L0011425   , L0011426   ,

          L0011427   , L0011428   , L0011429   , L0011430   , L0011431   , L0011432   ,
          L0011433   , L0011434   ,

          L0011435   , L0011436   , L0011437   , L0011438   , L0011439   , L0011440   ,
          L0011441   , L0011442   ,

          L0011443   , L0011444   , L0011445   , L0011446   , L0011447   , L0011448   ,
          L0011449   , L0011450   ,

          L0011451   , L0011452   , L0011453   , L0011454   , L0011455   , L0011456   ,
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          L0011473   , L0011474   ,

          L0011475   , L0011476   , L0011477   , L0011478   , L0011479   , L0011480   ,
          L0011481   , L0011482   ,

          L0011483   , L0011484   , L0011485   , L0011486   , L0011487   , L0011488   ,
          L0011489   , L0011490   ,

          L0011491   , L0011492   , L0011493   , L0011494   , L0011495   , L0011496   ,
          L0011497   , L0011498   ,

          L0011499   , L0011500   , L0011501   , L0011502   , L0011503   , L0011504   ,
          L0011505   , L0011506   ,

          L0011507   , L0011508   , L0011509   , L0011510   , L0011511   , L0011512   ,
          L0011513   , L0011514   ,
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID  URBAN POP                              SOURCE IDs
  --------  ---------                              ----------

          L0011515   , L0011516   , L0011517   , L0011518   , L0011519   , L0011520   ,
          L0011521   , L0011522   ,

          L0011523   , L0011524   , L0011525   , L0011526   , L0011527   , L0011528   ,
```

```
L0011529   , L0011530   ,

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L0011537   , L0011538   ,

L0011539   , L0011540   , L0011541  , L0011542  , L0011543  , L0011544  ,
L0011545   , L0011546   ,

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L0011569   , L0011570   ,

L0011571   , L0011572   , L0011573  , L0011574  , L0011575  , L0011576  ,
L0011577   , L0011578   ,

L0011579   , L0011580   , L0011581  , L0011582  , L0011583  , L0011584  ,
L0011585   , L0011586   ,

L0011587   , L0011588   , L0011589  , L0011590  , L0011591  , L0011592  ,
L0011593   , L0011594   ,

L0011595   , L0011596   , L0011597  , L0011598  , L0011599  , L0011600  ,
L0011601   , L0011602   ,

L0011603   , L0011604   , L0011605  , L0011606  , L0011607  , L0011608  ,
L0011609   , L0011610   ,

L0011611   , L0011612   , L0011613  , L0011614  , L0011615  , L0011616  ,
L0011617   , L0011618   ,

L0011619   , L0011620   , L0011621  , L0011622  , L0011623  , L0011624  ,
L0011625   , L0011626   ,

L0011627   , L0011628   , L0011629  , L0011630  , L0011631  , L0011632  ,
L0011633   , L0011634   ,

L0011635   , L0011636   , L0011637  , L0011638  , L0011639  , L0011640  ,
L0011641   , L0011642   ,

L0011643   , L0011644   , L0011645  , L0011646  , L0011647  , L0011648  ,
L0011649   , L0011650   ,

L0011651   , L0011652   , L0011653  , L0011654  , L0011655  , L0011656  ,
L0011657   , L0011658   ,

L0011659   , L0011660   , L0011661  , L0011662  , VOL1      , VOL2      ,
VOL3       , VOL4       ,

VOL5       , VOL6       , VOL7      , VOL8      , VOL9      , VOL10     ,
VOL11      , VOL12      ,
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET – VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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URBAN ID   URBAN POP                                     SOURCE IDs
-------    ---------                                     ----------


         VOL13        , VOL14        , VOL15       , VOL16       , VOL17       , VOL18       ,
         VOL19        , VOL20        ,

         VOL21        , VOL22        , VOL23       , VOL24       , VOL25       , VOL26       ,
         VOL27        , VOL28        ,

         VOL29        , VOL30        , VOL31       , VOL32       , VOL33       , VOL34       ,
         VOL35        , VOL36        ,

         VOL37        , VOL38        , VOL39       , VOL40       , VOL41       , VOL42       ,
         VOL43        , VOL44        ,

         VOL45        , VOL46        , VOL47       , VOL48       , VOL49       , VOL50       ,
         VOL51        , VOL52        ,

         VOL53        , VOL54        , VOL55       , VOL56       , VOL57       , VOL58       ,
         VOL59        , VOL60        ,

         VOL61        , VOL62        , VOL63       , VOL64       , VOL65       , VOL66       ,
         VOL67        , VOL68        ,

         VOL69        , VOL70        , VOL71       , VOL72       , VOL73       , VOL74       ,
         VOL75        , VOL76        ,

         VOL77        , STCK1        , STCK2       , STCK3       , STCK4       , STCK5       ,
         STCK6        , STCK7        ,

         STCK8        , STCK9        , STCK10      , VOL78       , STCK11      , STCK12      ,
         STCK13       , STCK14       ,

         STCK15       , STCK16       , STCK17      , STCK18      , STCK19      ,
```
FF *** AERMOD – VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET – VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                     PAGE 92
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SATURDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                        DAY OF WEEK = SUNDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL3   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL4   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
```
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL5   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
        - - - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL6   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                    PAGE 98
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
       .0000E+00   23  .0000E+00   24  .0000E+00
```

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                 PAGE  99
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL9          ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                 PAGE 100
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL10         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL11   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                   DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
                                   DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL12   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
         .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL13       ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                               DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL14       ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:53:41


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL15        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        11:53:41
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL18   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL19   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL20   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                        PAGE 111
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL21   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                       PAGE 112
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                       PAGE 113
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

```
                              (HRDOW) *

 SOURCE ID = VOL23        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
 FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
  ***                                                                ***         11:53:41


                    PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL24        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00    23  .0000E+00    24  .0000E+00
 FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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                     PAGE 115
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

```
                                          DAY OF WEEK = SUNDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
▐F▌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                               ***        11:53:41

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL27        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                          DAY OF WEEK = SATURDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                          DAY OF WEEK = SUNDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
▐F▌ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                               ***        11:53:41

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL28        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .1000E+01   12   .1000E+01   13   .1000E+01   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
```

```
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL29   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - * - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL31        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR     SCALAR    HOUR     SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

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*** MODELOPTs:     RegDFAULT  CONC   ELEV   URBAN   ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
 SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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```
*** MODELOPTs:     RegDFAULT  CONC   ELEV   URBAN   ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                     (HRDOW) *

SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
 SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .00D00E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                      PAGE 124
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL34        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
 SOURCE ID = VOL35        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL36   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                    PAGE 127
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL37   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL38   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL39        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

⬛ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

```
SOURCE ID = VOL40        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

⬛ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***

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                      PAGE 131
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL41         ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
 ▪▪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


SOURCE ID = VOL42         ; SOURCE TYPE = VOLUME    :
 HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL43        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL44        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                     DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL45   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                     DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                     DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:53:41

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
```

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL48       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV   URBAN  ADJ_U*


                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL49       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL50   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🔳 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL51   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL52   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***          11:53:41


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *


 SOURCE ID = VOL53        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

                    PAGE 144
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL54       ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

                    PAGE 145
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL55       ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
```

```
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                   PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL56        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL57   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL58   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14

```
              .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▆▆ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL59   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

▆▆ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                    PAGE 150
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL60   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL61        ; SOURCE TYPE = VOLUME  :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL62        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 153
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL63        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

                        PAGE 154
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL64        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = VOL65        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🄵🄵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23

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*** AERMET - VERSION  16216 ***
***                                                              ***        11:53:41

                   PAGE 156
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL66        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/25/23
*** AERMET - VERSION  16216 ***
***                                                              ***        11:53:41

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


SOURCE ID = VOL67        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL68   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                         DAY OF WEEK = SATURDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```
                                         DAY OF WEEK = SUNDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL69   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
```
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL70   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                  PAGE 161
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL71   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL72   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL73        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL74        ; SOURCE TYPE = VOLUME    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
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      .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       11:53:41


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL75       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***       11:53:41


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL76       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                     PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL77         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                     PAGE 168
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL78         ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *


SOURCE ID = STCK1        ; SOURCE TYPE = POINT    :
 HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

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 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

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                  PAGE 170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *


 SOURCE ID = STCK2       ; SOURCE TYPE = POINT    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR
  SCALAR    HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = MONDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = TUESDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .1000E+01    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = WEDNESDY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = THURSDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                    DAY OF WEEK = FRIDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

```
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                   PAGE 171
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW7) *

SOURCE ID = STCK3   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17 .0000E+00   18 .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                    PAGE 172
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *

 SOURCE ID = STCK4   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                                        DAY OF WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = WEDNESDY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = THURSDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = FRIDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                                        DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```
▐▐ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

              PAGE 173
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK5   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = MONDAY
```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
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```
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
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                        PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK6        ; SOURCE TYPE = POINT    :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00    24  .0000E+00
                                       DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00     8  .0000E+00
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```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                  PAGE 175
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK7   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                       DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
```

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      .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
```

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                    PAGE 176
*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW7) *

SOURCE ID = STCK8        ; SOURCE TYPE = POINT    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .1000E+01    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
 17  .0000E+00   18  .0000E+00    19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00     3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00     8  .0000E+00
  9  .0000E+00   10  .0000E+00    11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00    16  .0000E+00
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  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                    PAGE 177
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

SOURCE ID = STCK9   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
```

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      .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

🏢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
  *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                       PAGE 178
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *

SOURCE ID = STCK10   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

```
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
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                                  DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                 PAGE 179
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                      (HRDOW7) *

SOURCE ID = STCK11   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                  DAY OF WEEK = MONDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = TUESDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = WEDNESDY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = THURSDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = FRIDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
  .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                  DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK12   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = MONDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = TUESDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = WEDNESDY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = THURSDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = FRIDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = SATURDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```
                                                 DAY OF WEEK = SUNDAY
```
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
              (HRDOW7) *

SOURCE ID = STCK13   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
```
                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .0000E+00  10  .0000E+00  11  .0000E+00  12  .0000E+00  13  .0000E+00  14
   .0000E+00  15  .0000E+00  16  .0000E+00
  17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21  .0000E+00  22
   .0000E+00  23  .0000E+00  24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW7) *

SOURCE ID = STCK14   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
   .0000E+00 15 .0000E+00 16 .0000E+00
  17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00 22
   .0000E+00 23 .0000E+00 24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00 14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

                      PAGE 183
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK15   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00

```
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
     .0000E+00    23  .0000E+00    24  .0000E+00
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

```
SOURCE ID = STCK16      ; SOURCE TYPE = POINT    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR    SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = MONDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
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     .0000E+00   23  .0000E+00   24  .0000E+00
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/25/23
 *** AERMET - VERSION  16216 ***
  ***                                                    ***        11:53:41

                   PAGE 185
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK17     ; SOURCE TYPE = POINT    :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR   HOUR   SCALAR    HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                    PAGE 186
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK18   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK19   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

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*** AERMET - VERSION  16216 ***
***                                                                    ***        11:53:41

                     PAGE 188
*** MODELOPTs:     RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                     *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)


   ( 472283.7, 3752641.0,    492.6,     492.6,     0.0);       ( 472482.2, 3752398.0,
    499.3,     499.3,     0.0);
   ( 472478.0, 3752183.1,    505.1,     505.1,     0.0);       ( 472148.1, 3752531.5,
    495.2,     502.0,     0.0);
   ( 472052.1, 3752531.2,    499.4,     512.0,     0.0);       ( 471975.5, 3752531.2,
    500.5,     514.0,     0.0);
   ( 471896.1, 3752530.9,    503.4,     513.0,     0.0);       ( 471840.8, 3752529.9,
    503.4,     513.0,     0.0);
   ( 471816.6, 3752527.1,    500.6,     513.0,     0.0);       ( 471736.8, 3752557.9,
    501.5,     501.5,     0.0);
   ( 471696.6, 3752558.9,    500.0,     500.0,     0.0);       ( 471627.3, 3752556.2,
    501.9,     512.0,     0.0);
   ( 471584.6, 3752556.8,    504.5,     507.0,     0.0);       ( 471560.0, 3752556.2,
    504.6,     507.0,     0.0);
   ( 471534.3, 3752554.9,    503.2,     509.0,     0.0);       ( 471514.9, 3752554.9,
    502.2,     519.0,     0.0);
   ( 471486.8, 3752555.7,    503.1,     503.1,     0.0);       ( 471465.7, 3752555.4,
    503.1,     503.1,     0.0);
   ( 471442.2, 3752555.0,    501.3,     505.0,     0.0);       ( 471419.7, 3752552.5,
    500.3,     505.0,     0.0);
   ( 471394.2, 3752552.9,    501.4,     501.4,     0.0);       ( 471363.4, 3752552.5,
    503.5,     503.5,     0.0);
   ( 471332.7, 3752553.3,    505.8,     505.8,     0.0);       ( 471307.6, 3752552.9,
    506.9,     506.9,     0.0);
   ( 471284.0, 3752552.7,    506.2,     506.2,     0.0);       ( 471262.0, 3752552.7,
    505.7,     505.7,     0.0);
   ( 471241.9, 3752552.7,    505.6,     505.6,     0.0);       ( 471223.1, 3752552.9,
    505.9,     505.9,     0.0);
   ( 471205.9, 3752552.9,    506.2,     506.2,     0.0);       ( 471173.2, 3752552.4,
    506.5,     506.5,     0.0);
   ( 471135.7, 3752552.5,    506.1,     506.1,     0.0);       ( 471093.2, 3752551.5,
    505.4,     505.4,     0.0);
   ( 471059.4, 3752551.7,    504.7,     504.7,     0.0);       ( 471020.5, 3752551.2,
    503.1,     503.1,     0.0);
   ( 470981.0, 3752563.6,    502.1,     502.1,     0.0);       ( 470980.4, 3752552.2,
    502.5,     502.5,     0.0);
   ( 470980.1, 3752535.6,    503.0,     503.0,     0.0);       ( 470979.9, 3752517.2,
    503.7,     503.7,     0.0);
   ( 470980.1, 3752499.8,    504.0,     504.0,     0.0);       ( 470980.2, 3752479.8,
    504.0,     504.0,     0.0);
   ( 470980.4, 3752459.4,    504.6,     504.6,     0.0);       ( 470980.2, 3752433.2,
    505.4,     505.4,     0.0);
   ( 470980.1, 3752404.0,    506.0,     506.0,     0.0);       ( 470927.1, 3752402.7,
    504.9,     504.9,     0.0);
   ( 470907.9, 3752402.7,    503.1,     503.1,     0.0);       ( 470887.3, 3752402.7,
    500.9,     505.0,     0.0);
   ( 470869.7, 3752402.0,    500.7,     500.7,     0.0);       ( 470849.6, 3752401.9,
    500.3,     500.3,     0.0);
   ( 470829.4, 3752402.2,    500.0,     500.0,     0.0);       ( 470811.6, 3752402.2,
    499.7,     499.7,     0.0);
   ( 470791.5, 3752402.5,    499.2,     499.2,     0.0);       ( 470773.6, 3752401.9,
    498.6,     498.6,     0.0);
   ( 470749.2, 3752402.2,    497.8,     497.8,     0.0);       ( 470727.7, 3752391.7,
    497.8,     497.8,     0.0);
   ( 470733.0, 3752339.0,    499.9,     499.9,     0.0);       ( 470733.7, 3752320.5,
    500.2,     500.2,     0.0);
```

```
( 470734.2, 3752291.0,     500.8,     500.8,       0.0);        ( 470733.2, 3752265.8,
500.8,     500.8,       0.0);
( 470732.9, 3752218.8,     501.2,     501.2,       0.0);        ( 470732.5, 3752182.1,
501.8,     501.8,       0.0);
( 470732.4, 3752145.3,     503.0,     503.0,       0.0);        ( 470692.4, 3752144.8,
502.5,     502.5,       0.0);
( 470670.1, 3752144.5,     502.1,     502.1,       0.0);        ( 470651.7, 3752144.3,
502.0,     502.0,       0.0);
( 470633.5, 3752144.1,     501.5,     501.5,       0.0);        ( 470615.5, 3752144.0,
500.9,     500.9,       0.0);
( 470596.0, 3752143.3,     500.2,     500.2,       0.0);        ( 470577.0, 3752143.5,
500.0,     500.0,       0.0);
( 470553.6, 3752143.5,     499.7,     499.7,       0.0);        ( 470528.6, 3752142.6,
498.8,     498.8,       0.0);
( 470508.0, 3752142.8,     497.6,     497.6,       0.0);        ( 470485.6, 3752142.5,
496.3,     496.3,       0.0);
( 470471.6, 3752131.6,     496.1,     496.1,       0.0);        ( 470471.6, 3752109.2,
497.3,     497.3,       0.0);
( 470471.3, 3752085.2,     498.1,     498.1,       0.0);        ( 470471.5, 3752037.7,
499.7,     499.7,       0.0);
( 470471.7, 3752013.0,     500.0,     500.0,       0.0);        ( 470470.9, 3751987.2,
500.1,     500.1,       0.0);
( 470470.9, 3751965.7,     500.1,     500.1,       0.0);        ( 470470.8, 3751944.4,
500.1,     500.1,       0.0);
( 470470.6, 3751924.3,     499.6,     499.6,       0.0);        ( 470470.5, 3751905.9,
499.0,     499.0,       0.0);
( 470470.9, 3751884.1,     499.1,     499.1,       0.0);        ( 470470.6, 3751864.0,
498.6,     498.6,       0.0);
( 470470.3, 3751844.0,     497.9,     497.9,       0.0);        ( 470470.2, 3751824.5,
496.6,     496.6,       0.0);
( 470470.3, 3751805.8,     495.7,     499.0,       0.0);        ( 470470.3, 3751788.0,
495.1,     502.0,       0.0);
( 470470.3, 3751761.2,     497.6,     497.6,       0.0);        ( 470471.0, 3751741.9,
499.5,     499.5,       0.0);
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                    PAGE 189
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** DISCRETE CARTESIAN RECEPTORS ***
                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

```
( 470470.0, 3751722.8,     501.4,     501.4,       0.0);        ( 470470.2, 3751703.4,
503.3,     503.3,       0.0);
( 470470.2, 3751683.8,     504.9,     504.9,       0.0);        ( 470470.3, 3751664.3,
506.2,     506.2,       0.0);
( 470470.3, 3751642.4,     507.6,     507.6,       0.0);        ( 470470.5, 3751621.8,
508.5,     508.5,       0.0);
( 470470.2, 3751599.8,     509.0,     509.0,       0.0);        ( 470470.6, 3751578.8,
509.1,     509.1,       0.0);
( 470469.6, 3751555.9,     507.6,     507.6,       0.0);        ( 470470.0, 3751512.5,
504.8,     512.0,       0.0);
( 470468.6, 3751414.6,     501.8,     513.0,       0.0);        ( 470469.8, 3751385.2,
507.1,     513.0,       0.0);
( 470468.6, 3751358.9,     509.6,     509.6,       0.0);        ( 470462.9, 3751325.6,
511.9,     511.9,       0.0);
( 470462.0, 3751310.6,     512.6,     512.6,       0.0);        ( 470462.6, 3751296.6,
512.4,     512.4,       0.0);
( 470462.6, 3751283.3,     512.0,     512.0,       0.0);        ( 470462.6, 3751269.9,
511.1,     511.1,       0.0);
( 470462.9, 3751254.3,     509.6,     512.0,       0.0);        ( 470462.0, 3751240.7,
508.9,     508.9,       0.0);
```

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( 470463.2, 3751227.6,    509.4,    509.4,      0.0);    ( 470756.4, 3751290.6,
507.7,     525.0,     0.0);
( 470797.7, 3751268.3,    507.7,    525.0,      0.0);    ( 470891.2, 3751226.4,
512.0,     512.0,     0.0);
( 470940.8, 3751191.8,    512.1,    512.1,      0.0);    ( 471000.6, 3750923.6,
523.8,     523.8,     0.0);
( 471029.3, 3750923.6,    523.7,    523.7,      0.0);    ( 471056.3, 3750923.9,
524.2,     542.0,     0.0);
( 471077.9, 3750924.4,    524.8,    543.0,      0.0);    ( 471097.6, 3750924.4,
525.7,     543.0,     0.0);
( 471118.2, 3750925.0,    528.0,    543.0,      0.0);    ( 471139.0, 3750927.4,
529.8,     543.0,     0.0);
( 471160.1, 3750928.8,    530.8,    543.0,      0.0);    ( 471181.1, 3750931.5,
532.3,     543.0,     0.0);
( 471201.7, 3750930.9,    533.3,    543.0,      0.0);    ( 471222.5, 3750931.5,
533.7,     543.0,     0.0);
( 471244.1, 3750931.2,    534.8,    543.0,      0.0);    ( 471264.4, 3750931.7,
535.7,     538.0,     0.0);
( 471284.4, 3750931.7,    536.5,    536.5,      0.0);    ( 471305.8, 3750931.7,
536.5,     536.5,     0.0);
( 471324.7, 3750930.9,    535.8,    535.8,      0.0);    ( 471343.0, 3750930.1,
534.9,     534.9,     0.0);
( 471363.9, 3750929.0,    534.7,    534.7,      0.0);    ( 471382.0, 3750928.8,
534.8,     534.8,     0.0);
( 471400.9, 3750928.2,    535.0,    535.0,      0.0);    ( 471421.1, 3750928.0,
535.4,     535.4,     0.0);
( 471440.6, 3750928.1,    535.6,    535.6,      0.0);    ( 471461.8, 3750927.4,
535.7,     535.7,     0.0);
( 471479.8, 3750927.9,    535.9,    535.9,      0.0);    ( 471499.7, 3750927.6,
536.2,     536.2,     0.0);
( 471519.3, 3750928.8,    536.6,    549.0,      0.0);    ( 471537.0, 3750929.6,
538.0,     549.0,     0.0);
( 471556.8, 3750930.9,    539.6,    549.0,      0.0);    ( 471580.7, 3750934.1,
541.7,     549.0,     0.0);
( 471624.0, 3750940.2,    545.0,    549.0,      0.0);    ( 471795.9, 3750950.1,
548.4,     548.4,     0.0);
( 471796.3, 3750967.9,    547.3,    547.3,      0.0);    ( 471796.7, 3750987.2,
545.3,     547.0,     0.0);
( 471797.5, 3751006.8,    542.7,    549.0,      0.0);    ( 471796.7, 3751025.3,
542.0,     547.0,     0.0);
( 471795.9, 3751046.4,    541.1,    541.1,      0.0);    ( 471796.7, 3751073.0,
540.1,     540.1,     0.0);
( 471797.5, 3751143.8,    537.7,    537.7,      0.0);    ( 471833.0, 3751143.8,
537.0,     537.0,     0.0);
( 471867.4, 3751144.0,    534.9,    534.9,      0.0);    ( 471891.0, 3751144.4,
532.9,     532.9,     0.0);
( 471916.6, 3751144.2,    530.9,    530.9,      0.0);    ( 471939.5, 3751144.2,
529.4,     529.4,     0.0);
( 471963.1, 3751144.4,    525.8,    535.0,      0.0);    ( 471984.2, 3751144.0,
524.4,     533.0,     0.0);
( 471999.0, 3751163.4,    525.3,    536.0,      0.0);    ( 472000.2, 3751199.1,
530.8,     530.8,     0.0);
( 471999.8, 3751230.6,    532.9,    532.9,      0.0);    ( 472000.4, 3751251.5,
534.3,     534.3,     0.0);
( 472000.2, 3751281.1,    536.2,    536.2,      0.0);    ( 472002.0, 3751347.9,
537.0,     537.0,     0.0);
( 472036.9, 3751348.5,    536.6,    536.6,      0.0);    ( 472063.1, 3751349.3,
536.5,     536.5,     0.0);
( 472084.6, 3751348.3,    535.8,    535.8,      0.0);    ( 472104.9, 3751348.7,
534.6,     534.6,     0.0);
( 472127.3, 3751348.5,    533.0,    533.0,      0.0);    ( 472150.8, 3751349.7,
531.4,     531.4,     0.0);
( 472171.5, 3751349.5,    530.3,    530.3,      0.0);    ( 472194.1, 3751349.1,
528.2,     531.0,     0.0);
( 472222.6, 3751348.7,    525.4,    536.0,      0.0);    ( 472247.8, 3751349.5,
523.2,     536.0,     0.0);
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( 472269.7, 3751349.1,      520.9,      536.0,        0.0);       ( 472290.4, 3751350.3,
  520.7,      535.0,       0.0);
( 472313.6, 3751350.5,      520.9,      532.0,        0.0);       ( 472333.8, 3751351.3,
  520.6,      532.0,       0.0);
```

[PF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                      PAGE 190
 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

```
                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                  (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                              (METERS)


( 472354.8, 3751351.3,      518.5,      532.0,        0.0);       ( 472377.7, 3751351.1,
  516.0,      532.0,       0.0);
( 472401.7, 3751351.1,      513.6,      533.0,        0.0);       ( 472425.5, 3751351.8,
  511.8,      532.0,       0.0);
( 472445.7, 3751350.7,      511.1,      532.0,        0.0);       ( 472463.2, 3751350.9,
  509.4,      532.0,       0.0);
( 472484.1, 3751350.9,      507.3,      532.0,        0.0);       ( 472503.9, 3751351.3,
  506.3,      532.0,       0.0);
( 472523.8, 3751351.3,      506.2,      531.0,        0.0);       ( 472543.3, 3751351.3,
  506.4,      506.4,       0.0);
( 472563.2, 3751352.2,      506.1,      506.1,        0.0);       ( 472582.6, 3751352.0,
  505.8,      505.8,       0.0);
( 472601.3, 3751352.0,      505.3,      505.3,        0.0);       ( 472606.8, 3751367.3,
  504.3,      504.3,       0.0);
( 472607.6, 3751396.4,      504.2,      504.2,        0.0);       ( 472608.5, 3751432.1,
  505.0,      505.0,       0.0);
( 472608.9, 3751462.6,      504.4,      504.4,        0.0);       ( 472609.5, 3751497.1,
  505.0,      505.0,       0.0);
( 472610.7, 3751553.8,      505.4,      505.4,        0.0);       ( 472666.0, 3751554.0,
  501.3,      501.3,       0.0);
( 472690.4, 3751553.6,      499.8,      499.8,        0.0);       ( 472713.5, 3751554.3,
  499.2,      499.2,       0.0);
( 472734.6, 3751554.0,      497.9,      497.9,        0.0);       ( 472759.5, 3751554.0,
  496.2,      496.2,       0.0);
( 472781.8, 3751554.5,      494.9,      499.0,        0.0);       ( 472849.8, 3751556.1,
  495.4,      495.4,       0.0);
( 472871.8, 3751556.1,      494.9,      494.9,        0.0);       ( 472895.2, 3751555.6,
  494.2,      494.2,       0.0);
( 472922.6, 3751555.9,      493.8,      493.8,        0.0);       ( 473092.4, 3751802.3,
  486.1,      486.1,       0.0);
( 473204.8, 3751856.8,      481.6,      481.6,        0.0);       ( 472991.2, 3752083.3,
  484.1,      484.1,       0.0);
( 473295.1, 3752052.5,      478.7,      478.7,        0.0);       ( 473356.8, 3752050.3,
  476.8,      476.8,       0.0);
( 473495.1, 3751996.6,      476.0,      476.0,        0.0);       ( 473486.5, 3751917.7,
  475.8,      475.8,       0.0);
( 473392.6, 3752058.2,      475.9,      475.9,        0.0);       ( 473464.3, 3752082.6,
  475.2,      475.2,       0.0);
( 473550.3, 3752087.6,      473.0,      473.0,        0.0);       ( 473584.7, 3752089.8,
  473.0,      473.0,       0.0);
( 472765.6, 3752474.1,      477.2,      495.0,        0.0);       ( 470432.2, 3750483.9,
  532.6,      532.6,       0.0);
( 469244.1, 3754182.8,      471.3,      485.0,        0.0);       ( 469596.8, 3750785.6,
  493.4,      493.4,       0.0);
( 470466.5, 3750530.3,      535.0,      535.0,        0.0);       ( 469319.3, 3749244.5,
  500.0,      500.0,       0.0);
( 469229.6, 3749502.2,      503.4,      503.4,        0.0);       ( 468465.4, 3749582.3,
  490.5,      490.5,       0.0);
( 471438.4, 3750129.8,      539.2,      539.2,        0.0);       ( 471657.5, 3749918.8,
  535.4,      535.4,       0.0);
```

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( 471732.9, 3749916.5,      534.7,      534.7,       0.0);         ( 471710.3, 3750132.8,
537.0,      537.0,       0.0);
( 471273.9, 3750119.8,      540.5,      540.5,       0.0);         ( 470973.4, 3752300.8,
503.8,      503.8,       0.0);
( 470974.0, 3752278.4,      504.4,      504.4,       0.0);         ( 470974.0, 3752235.6,
505.0,      505.0,       0.0);
( 470971.9, 3752174.6,      506.2,      506.2,       0.0);         ( 470967.2, 3752139.2,
509.1,      509.1,       0.0);
( 470962.5, 3752110.5,      510.8,      510.8,       0.0);         ( 470952.6, 3752077.1,
512.0,      512.0,       0.0);
( 470935.3, 3752029.1,      508.7,      512.0,       0.0);         ( 470922.3, 3751998.9,
506.1,      511.0,       0.0);
( 470910.3, 3751966.5,      508.0,      508.0,       0.0);         ( 470891.5, 3751915.4,
510.8,      510.8,       0.0);
( 470880.6, 3751877.9,      512.3,      512.3,       0.0);         ( 470874.8, 3751848.1,
513.4,      517.0,       0.0);
( 470871.7, 3751810.6,      517.1,      517.1,       0.0);         ( 470871.2, 3751779.3,
517.1,      517.1,       0.0);
( 470872.2, 3751740.7,      515.6,      515.6,       0.0);         ( 470876.4, 3751710.4,
514.9,      514.9,       0.0);
( 470884.8, 3751671.8,      514.8,      514.8,       0.0);         ( 470900.4, 3751616.6,
516.8,      516.8,       0.0);
( 470911.9, 3751582.7,      518.5,      518.5,       0.0);         ( 470919.7, 3751556.1,
518.3,      518.3,       0.0);
( 470931.2, 3751524.2,      516.9,      516.9,       0.0);         ( 470940.0, 3751496.6,
515.6,      515.6,       0.0);
( 470951.5, 3751461.1,      514.4,      514.4,       0.0);         ( 470962.0, 3751424.6,
513.8,      513.8,       0.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
  ***   ***   11:53:41

                    PAGE 191
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                 *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

              NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
              INCLUDED IN THE DATA FILE.

                            *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                            ***
                                           (METERS/SEC)

                            1.54,   3.09,   5.14,   8.23, 10.80,
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

    Surface file:
    KRAL_V9_ADJU\KRAL_v9.SFC   Met
    Version: 16216
    Profile file:
    KRAL_V9_ADJU\KRAL_v9.PFL
    Surface format:
    FREE

    Profile format:
    FREE

    Surface station no.:   3171   Upper air station no.:   3190
                  Name: UNKNOWN   Name:
                  UNKNOWN
                  Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH   M-O LEN   Z0 BOWEN ALBEDO   REF WS
 WD   HT   REF TA   HT
- -
- - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15   2.40   1.00   2.93
 55.   10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15   2.40   1.00   3.05
 55.   10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15   2.40   1.00   2.45
 74.   10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15   2.40   1.00   2.52
 77.   10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15   2.40   1.00   2.30
 80.   10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15   2.40   1.00   1.93
 79.   10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15   2.40   1.00   1.96
 77.   10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15   2.40   0.53   1.89
 77.   10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15   2.40   0.31   2.10
 81.   10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005 129. 293.   -11.8 0.15   2.40   0.24   1.99
 101.   10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005 369. 611.   -35.6 0.15   2.40   0.21   3.68
 78.   10.1 298.8   2.0
 12 01 01   1 12 184.7 0.337 1.516 0.005 668. 473.   -18.4 0.15   2.40   0.20   2.89
 68.   10.1 300.4   2.0
 12 01 01   1 13 183.9 0.310 1.809 0.005 1139. 414.   -14.2 0.15   2.40   0.20   2.57
 64.   10.1 302.5   2.0
 12 01 01   1 14 156.6 0.374 1.852 0.005 1434. 549.   -29.5 0.15   2.40   0.22   3.37
 63.   10.1 303.1   2.0
 12 01 01   1 15 104.3 0.382 1.658 0.005 1546. 567.   -47.2 0.15   2.40   0.25   3.59
 62.   10.1 302.5   2.0
 12 01 01   1 16   31.8 0.374 1.123 0.005 1573. 550.   -145.8 0.15   2.40   0.34   3.76
 69.   10.1 300.9   2.0
 12 01 01   1 17 -23.3 0.276 -9.000 -9.000 -999. 354.   84.0 0.15   2.40   0.62   3.03
 59.   10.1 297.5   2.0
 12 01 01   1 18 -21.5 0.229 -9.000 -9.000 -999. 264.   57.8 0.15   2.40   1.00   2.54
 54.   10.1 295.4   2.0

```
12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.    45.6  0.15   2.40   1.00   2.27
79.   10.1  292.0    2.0
12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.    52.2  0.15   2.40   1.00   2.42
79.   10.1  292.5    2.0
12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.    46.9  0.15   2.40   1.00   2.30
95.   10.1  290.9    2.0
12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.    39.8  0.15   2.40   1.00   2.13
78.   10.1  290.4    2.0
12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.    49.0  0.15   2.40   1.00   2.35
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.    37.0  0.15   2.40   1.00   2.06
75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


 F indicates top of profile (=1) or below (=0)
 FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                       ***        11:53:41

                    PAGE 193
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL      ***
                            INCLUDING SOURCE(S):    L0012023   , L0012024    ,
                            L0012025   , L0012026   , L0012027    ,
              L0012028   , L0012029   , L0012030   , L0012031   , L0012032    ,
              L0012033   , L0012034   , L0012035    ,
              L0012036   , L0012037   , L0012038   , L0012039   , L0012040    ,
              L0012041   , L0012042   , L0012043    ,
              L0012044   , L0012045   , L0012046   , L0012047   , L0012048    ,
              L0012049   , L0012050   , . . .      ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF DPM      IN
                         MICROGRAMS/M**3                          **

     X-COORD (M)   Y-COORD (M)      CONC                 X-COORD (M)   Y-COORD
     (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
      472283.74   3752640.98      0.00465                 472482.23
      3752398.04       0.00591
      472477.97   3752183.12      0.00915                 472148.10
      3752531.53       0.00673
      472052.12   3752531.22      0.00764                 471975.52
      3752531.22       0.00826
      471896.06   3752530.90      0.00892                 471840.76
      3752529.94       0.00926
      471816.60   3752527.08      0.00932                 471736.82
      3752557.91       0.00883
      471696.59   3752558.87      0.00885                 471627.29
      3752556.22       0.00915
      471584.60   3752556.76      0.00930                 471560.01
      3752556.22       0.00931
      471534.35   3752554.87      0.00926                 471514.89
      3752554.87       0.00918
      471486.79   3752555.68      0.00915                 471465.72
      3752555.41       0.00910
      471442.21   3752554.98      0.00894                 471419.71
```

3752552.46		0.00887	
471394.22	3752552.91	0.00879	471363.44
3752552.46		0.00874	
471332.68	3752553.31	0.00864	471307.62
3752552.94		0.00852	
471284.05	3752552.70	0.00831	471261.98
3752552.70		0.00812	
471241.90	3752552.70	0.00795	471223.15
3752552.86		0.00780	
471205.90	3752552.86	0.00765	471173.21
3752552.37		0.00738	
471135.70	3752552.53	0.00701	471093.22
3752551.54		0.00660	
471059.37	3752551.70	0.00626	471020.54
3752551.20		0.00588	
470981.05	3752563.65	0.00539	470980.39
3752552.20		0.00551	
470980.06	3752535.61	0.00570	470979.89
3752517.19		0.00591	
470980.06	3752499.76	0.00613	470980.22
3752479.85		0.00639	
470980.39	3752459.44	0.00669	470980.22
3752433.22		0.00710	
470980.06	3752404.02	0.00761	470927.12
3752402.69		0.00672	
470907.87	3752402.69	0.00639	470887.30
3752402.69		0.00606	
470869.71	3752402.03	0.00585	470849.63
3752401.86		0.00562	
470829.39	3752402.19	0.00540	470811.63
3752402.19		0.00522	
470791.55	3752402.53	0.00502	470773.63
3752401.86		0.00486	
470749.24	3752402.19	0.00464	470727.72
3752391.74		0.00453	
470733.04	3752338.97	0.00489	470733.70
3752320.55		0.00500	
470734.20	3752291.01	0.00518	470733.20
3752265.78		0.00531	
470732.87	3752218.81	0.00557	470732.54
3752182.14		0.00578	
470732.37	3752145.29	0.00600	470692.38
3752144.80		0.00551	
470670.14	3752144.46	0.00526	470651.72
3752144.30		0.00508	
470633.46	3752144.13	0.00490	470615.54
3752143.97		0.00473	
470595.95	3752143.30	0.00456	470577.03
3752143.47		0.00441	
470553.63	3752143.47	0.00424	470528.57
3752142.64		0.00406	
470507.99	3752142.80	0.00391	470485.59
3752142.47		0.00376	
470471.60	3752131.63	0.00370	470471.60
3752109.21		0.00376	
470471.32	3752085.22	0.00382	470471.46
3752037.68		0.00394	
470471.74	3752013.00	0.00400	470470.89
3751987.18		0.00404	
470470.89	3751965.74	0.00408	470470.75
3751944.44		0.00411	

```
                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL        ***
                             INCLUDING SOURCE(S):     L0012023   , L0012024    ,
                             L0012025   , L0012026   , L0012027    ,
              L0012028    , L0012029    , L0012030    , L0012031    , L0012032    ,
              L0012033    , L0012034    , L0012035    ,
              L0012036    , L0012037    , L0012038    , L0012039    , L0012040    ,
              L0012041    , L0012042    , L0012043    ,
              L0012044    , L0012045    , L0012046    , L0012047    , L0012048    ,
              L0012049    , L0012050    , . . .       ,
```

```
                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF DPM      IN
                              MICROGRAMS/M**3                              **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
470470.61	3751924.27	0.00414	470470.47	3751905.93	0.00416
470470.89	3751884.06	0.00419	470470.61	3751864.03	0.00421
470470.33	3751844.00	0.00422	470470.19	3751824.53	0.00423
470470.33	3751805.77	0.00423	470470.33	3751788.00	0.00424
470470.33	3751761.19	0.00430	470471.03	3751741.87	0.00435
470470.05	3751722.82	0.00438	470470.19	3751703.36	0.00442
470470.19	3751683.75	0.00445	470470.33	3751664.28	0.00447
470470.33	3751642.41	0.00449	470470.47	3751621.82	0.00450
470470.19	3751599.81	0.00450	470470.61	3751578.79	0.00449
470469.62	3751555.94	0.00445	470470.05	3751512.49	0.00438
470468.64	3751414.59	0.00420	470469.76	3751385.25	0.00423
470468.65	3751358.95	0.00420	470462.93	3751325.56	0.00413
470461.98	3751310.62	0.00410	470462.61	3751296.63	0.00407
470462.61	3751283.28	0.00403	470462.61	3751269.92	0.00399
470462.93	3751254.35	0.00394	470461.98	3751240.67	0.00390
470463.25	3751227.64	0.00388	470756.39	3751290.59	0.00583
470797.72	3751268.33	0.00600	470891.19	3751226.38	0.00647
470940.78	3751191.82	0.00648	471000.61	3750923.63	0.00436
471029.26	3750923.63	0.00443	471056.29	3750923.90	0.00448
471077.91	3750924.44	0.00452	471097.64	3750924.44	0.00455
471118.18	3750924.98	0.00454	471138.99	3750927.42	0.00452
471160.07	3750928.77	0.00452	471181.15		

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
	3750931.47	0.00449			
471201.69	3750930.93	0.00446	471222.50	3750931.47	0.00447
471244.13	3750931.20	0.00440	471264.40	3750931.74	0.00434
471284.40	3750931.74	0.00429	471305.75	3750931.74	0.00429
471324.67	3750930.93	0.00435	471343.05	3750930.12	0.00442
471363.86	3750929.04	0.00444	471381.96	3750928.77	0.00442
471400.88	3750928.23	0.00439	471421.15	3750927.96	0.00433
471440.59	3750928.11	0.00430	471461.83	3750927.45	0.00428
471479.76	3750927.95	0.00426	471499.68	3750927.62	0.00420
471519.26	3750928.78	0.00416	471537.02	3750929.61	0.00403
471556.77	3750930.94	0.00384	471580.68	3750934.09	0.00351
471624.00	3750940.23	0.00319	471795.90	3750950.11	0.00281
471796.29	3750967.88	0.00299	471796.69	3750987.22	0.00325
471797.47	3751006.75	0.00363	471796.69	3751025.30	0.00386
471795.90	3751046.40	0.00417	471796.69	3751072.96	0.00467
471797.47	3751143.85	0.00605	471833.01	3751143.85	0.00598
471867.38	3751144.05	0.00606	471891.02	3751144.44	0.00611
471916.60	3751144.24	0.00609	471939.45	3751144.24	0.00605
471963.08	3751144.44	0.00603	471984.17	3751144.05	0.00592

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   10/25/23
 *** AERMET - VERSION 16216 ***
 ***   ***   11:53:41

                   PAGE 195
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0012023   , L0012024   ,
                                    L0012025   , L0012026   , L0012027   ,
                 L0012028   , L0012029   , L0012030   , L0012031   , L0012032   ,
                 L0012033   , L0012034   , L0012035   ,
                 L0012036   , L0012037   , L0012038   , L0012039   , L0012040   ,
                 L0012041   , L0012042   , L0012043   ,
                 L0012044   , L0012045   , L0012046   , L0012047   , L0012048   ,
                 L0012049   , L0012050   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF DPM   IN
                              MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
471999.02	3751163.38	0.00607	472000.19		

	3751199.12	0.00636	
471999.80	3751230.56	0.00672	472000.38
	3751251.46	0.00698	
472000.19	3751281.15	0.00739	472001.95
	3751347.94	0.00889	
472036.90	3751348.52	0.00853	472063.07
	3751349.31	0.00828	
472084.56	3751348.33	0.00806	472104.87
	3751348.72	0.00788	
472127.33	3751348.52	0.00770	472150.76
	3751349.70	0.00757	
472171.47	3751349.50	0.00746	472194.12
	3751349.11	0.00732	
472222.63	3751348.72	0.00711	472247.83
	3751349.50	0.00692	
472269.70	3751349.11	0.00674	472290.40
	3751350.28	0.00660	
472313.64	3751350.48	0.00643	472333.76
	3751351.26	0.00630	
472354.85	3751351.26	0.00616	472377.70
	3751351.06	0.00600	
472401.72	3751351.06	0.00585	472425.55
	3751351.84	0.00571	
472445.67	3751350.67	0.00558	472463.24
	3751350.87	0.00549	
472484.14	3751350.87	0.00537	472503.87
	3751351.26	0.00527	
472523.79	3751351.26	0.00517	472543.32
	3751351.26	0.00508	
472563.24	3751352.24	0.00500	472582.57
	3751352.04	0.00491	
472601.32	3751352.04	0.00482	472606.79
	3751367.27	0.00492	
472607.57	3751396.37	0.00515	472608.55
	3751432.11	0.00546	
472608.94	3751462.58	0.00574	472609.52
	3751497.15	0.00607	
472610.70	3751553.78	0.00664	472665.97
	3751553.98	0.00625	
472690.38	3751553.59	0.00610	472713.50
	3751554.27	0.00596	
472734.64	3751554.04	0.00585	472759.46
	3751554.04	0.00572	
472781.75	3751554.50	0.00561	472849.76
	3751556.11	0.00528	
472871.82	3751556.11	0.00519	472895.25
	3751555.65	0.00508	
472922.60	3751555.88	0.00497	473092.41
	3751802.31	0.00648	
473204.80	3751856.81	0.00662	472991.21
	3752083.31	0.00728	
473295.12	3752052.49	0.01267	473356.76
	3752050.34	0.01500	
473495.10	3751996.58	0.01061	473486.50
	3751917.74	0.00673	
473392.60	3752058.22	0.01392	473464.28
	3752082.59	0.01037	
473550.29	3752087.61	0.00996	473584.69
	3752089.76	0.01000	
472765.59	3752474.09	0.00378	470432.16
	3750483.93	0.00200	
469244.06	3754182.82	0.00058	469596.75
	3750785.65	0.00154	
470466.55	3750530.27	0.00210	469319.29
	3749244.53	0.00072	
469229.64	3749502.19	0.00080	468465.38

```
        3749582.33        0.00068
     471438.37   3750129.76        0.00133                  471657.54
        3749918.78        0.00117
     471732.91   3749916.52        0.00118                  471710.30
        3750132.80        0.00135
     471273.89   3750119.77        0.00128                  470973.43
        3752300.84        0.00957
     470973.95   3752278.41        0.01025                  470973.95
        3752235.65        0.01105
     470971.86   3752174.63        0.01167                  470967.17
        3752139.16        0.01211
     470962.47   3752110.48        0.01252                  470952.57
        3752077.10        0.01292
```

```
                         *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL       ***
                            INCLUDING SOURCE(S):    L0012023   , L0012024   ,
                            L0012025   , L0012026   , L0012027   ,
              L0012028   , L0012029   , L0012030   , L0012031   , L0012032   ,
              L0012033   , L0012034   , L0012035   ,
              L0012036   , L0012037   , L0012038   , L0012039   , L0012040   ,
              L0012041   , L0012042   , L0012043   ,
              L0012044   , L0012045   , L0012046   , L0012047   , L0012048   ,
              L0012049   , L0012050   , . . .      ,


                         *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                     ** CONC OF DPM       IN
                     MICROGRAMS/M**3                          **


     X-COORD (M)   Y-COORD (M)      CONC                 X-COORD (M)   Y-COORD
     (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
     470935.35   3752029.11        0.01245                  470922.32
        3751998.86        0.01187
     470910.32   3751966.53        0.01175                  470891.54
        3751915.42        0.01153
     470880.59   3751877.86        0.01152                  470874.85
        3751848.14        0.01165
     470871.72   3751810.58        0.01196                  470871.20
        3751779.29        0.01180
     470872.25   3751740.70        0.01165                  470876.42
        3751710.45        0.01174
     470884.76   3751671.85        0.01199                  470900.41
        3751616.57        0.01195
     470911.88   3751582.67        0.01181                  470919.71
        3751556.07        0.01157
     470931.18   3751524.25        0.01128                  470940.05
        3751496.61        0.01098
     470951.52   3751461.14        0.01062                  470961.95
        3751424.64        0.01020
```

```
                          *** THE SUMMARY OF MAXIMUM PERIOD ( 43848 HRS) RESULTS
                          ***


                          ** CONC OF DPM      IN
                          MICROGRAMS/M**3                              **


            NETWORK
GROUP ID                          AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL,
ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS       0.01500 AT (  473356.76,  3752050.34,    476.76,
476.76,    0.00)  DC
         2ND HIGHEST VALUE IS       0.01392 AT (  473392.60,  3752058.22,    475.95,
         475.95,    0.00)  DC
         3RD HIGHEST VALUE IS       0.01292 AT (  470952.57,  3752077.10,    512.03,
         512.03,    0.00)  DC
         4TH HIGHEST VALUE IS       0.01267 AT (  473295.12,  3752052.49,    478.66,
         478.66,    0.00)  DC
         5TH HIGHEST VALUE IS       0.01252 AT (  470962.47,  3752110.48,    510.75,
         510.75,    0.00)  DC
         6TH HIGHEST VALUE IS       0.01245 AT (  470935.35,  3752029.11,    508.72,
         512.00,    0.00)  DC
         7TH HIGHEST VALUE IS       0.01211 AT (  470967.17,  3752139.16,    509.09,
         509.09,    0.00)  DC
         8TH HIGHEST VALUE IS       0.01199 AT (  470884.76,  3751671.85,    514.83,
         514.83,    0.00)  DC
         9TH HIGHEST VALUE IS       0.01196 AT (  470871.72,  3751810.58,    517.08,
         517.08,    0.00)  DC
         10TH HIGHEST VALUE IS      0.01195 AT (  470900.41,  3751616.57,    516.82,
         516.82,    0.00)  DC


  *** RECEPTOR TYPES:  GC = GRIDCART
                       GP = GRIDPOLR
                       DC = DISCCART
                       DP = DISCPOLR
```

```
FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       10/25/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       11:53:41


                   PAGE 198
```

```
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of          0 Fatal Error Message(s)
 A Total of         21 Warning Message(s)
 A Total of       1638 Informational Message(s)

 A Total of      43848 Hours Were Processed

 A Total of       1039 Calm Hours Identified

 A Total of        599 Missing Hours Identified (  1.37 Percent)


      ******** FATAL ERROR MESSAGES ********
              ***   NONE   ***
```

```
     ********    WARNING MESSAGES    ********
SO W320   5532        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5533        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5534        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5535        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5536        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5537        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5538        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5539        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5540        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5541        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5543        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5544        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5545        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5546        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5547        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5548        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5549        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5550        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
SO W320   5551        PPARM: Input Parameter May Be Out-of-Range for Parameter        VS
ME W186   7151        MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used       0.50
ME W187   7151        MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

     ************************************
     *** AERMOD Finishes Successfully ***
     ************************************
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 11/1/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064-16 Ops HRA Mit\14064-16
Ops HRA Mit.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140
   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 2189641 Riverside_County
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "14064-16 Ops HRA Mit.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Bldg B Idle N
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00009627
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471215.117, 3751821.365, 518.16, 3.49, 4.00
** 471722.155, 3751826.378, 536.07, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016311      VOLUME     471219.412 3751821.407 518.32
   LOCATION L0016312      VOLUME     471228.002 3751821.492 518.94
   LOCATION L0016313      VOLUME     471236.591 3751821.577 519.57
   LOCATION L0016314      VOLUME     471245.181 3751821.662 520.18
   LOCATION L0016315      VOLUME     471253.771 3751821.747 521.08
   LOCATION L0016316      VOLUME     471262.360 3751821.832 522.26
   LOCATION L0016317      VOLUME     471270.950 3751821.917 523.45
   LOCATION L0016318      VOLUME     471279.539 3751822.002 524.64
   LOCATION L0016319      VOLUME     471288.129 3751822.087 524.46
   LOCATION L0016320      AERVOLUME  471296.718 3751822.172 524.27
   LOCATION L0016321      VOLUME     471305.308 3751822.257 524.09
   LOCATION L0016322      VOLUME     471313.898 3751822.341 523.97
   LOCATION L0016323      VOLUME     471322.487 3751822.426 523.92
   LOCATION L0016324      VOLUME     471331.077 3751822.511 523.86
   LOCATION L0016325      VOLUME     471339.666 3751822.596 523.80
```

```
   LOCATION L0016326      VOLUME      471348.256 3751822.681 523.86
   LOCATION L0016327      VOLUME      471356.846 3751822.766 523.91
   LOCATION L0016328      VOLUME      471365.435 3751822.851 523.97
   LOCATION L0016329      VOLUME      471374.025 3751822.936 524.03
   LOCATION L0016330      VOLUME      471382.614 3751823.021 524.09
   LOCATION L0016331      VOLUME      471391.204 3751823.106 524.16
   LOCATION L0016332      VOLUME      471399.793 3751823.191 524.23
   LOCATION L0016333      VOLUME      471408.383 3751823.276 524.74
   LOCATION L0016334      VOLUME      471416.973 3751823.361 525.26
   LOCATION L0016335      VOLUME      471425.562 3751823.446 525.76
   LOCATION L0016336      VOLUME      471434.152 3751823.530 526.31
   LOCATION L0016337      VOLUME      471442.741 3751823.615 526.88
   LOCATION L0016338      VOLUME      471451.331 3751823.700 527.45
   LOCATION L0016339      VOLUME      471459.920 3751823.785 528.02
   LOCATION L0016340      VOLUME      471468.510 3751823.870 528.37
   LOCATION L0016341      VOLUME      471477.100 3751823.955 528.73
   LOCATION L0016342      VOLUME      471485.689 3751824.040 529.09
   LOCATION L0016343      VOLUME      471494.279 3751824.125 529.52
   LOCATION L0016344      VOLUME      471502.868 3751824.210 530.03
   LOCATION L0016345      VOLUME      471511.458 3751824.295 530.53
   LOCATION L0016346      VOLUME      471520.048 3751824.380 531.04
   LOCATION L0016347      VOLUME      471528.637 3751824.465 531.68
   LOCATION L0016348      VOLUME      471537.227 3751824.550 532.33
   LOCATION L0016349      VOLUME      471545.816 3751824.634 532.98
   LOCATION L0016350      VOLUME      471554.406 3751824.719 533.47
   LOCATION L0016351      VOLUME      471562.995 3751824.804 533.84
   LOCATION L0016352      VOLUME      471571.585 3751824.889 534.21
   LOCATION L0016353      VOLUME      471580.175 3751824.974 534.57
   LOCATION L0016354      VOLUME      471588.764 3751825.059 534.78
   LOCATION L0016355      VOLUME      471597.354 3751825.144 534.99
   LOCATION L0016356      VOLUME      471605.943 3751825.229 535.20
   LOCATION L0016357      VOLUME      471614.533 3751825.314 535.41
   LOCATION L0016358      VOLUME      471623.123 3751825.399 535.61
   LOCATION L0016359      VOLUME      471631.712 3751825.484 535.82
   LOCATION L0016360      VOLUME      471640.302 3751825.569 536.00
   LOCATION L0016361      VOLUME      471648.891 3751825.654 536.00
   LOCATION L0016362      VOLUME      471657.481 3751825.739 536.00
   LOCATION L0016363      VOLUME      471666.070 3751825.823 536.00
   LOCATION L0016364      VOLUME      471674.660 3751825.908 536.00
   LOCATION L0016365      VOLUME      471683.250 3751825.993 536.00
   LOCATION L0016366      VOLUME      471691.839 3751826.078 536.00
   LOCATION L0016367      VOLUME      471700.429 3751826.163 536.00
   LOCATION L0016368      VOLUME      471709.018 3751826.248 536.00
   LOCATION L0016369      VOLUME      471717.608 3751826.333 536.00
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Bldg B Idle E
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00009627
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471731.500, 3751810.802, 536.04, 3.49, 4.00
** 471733.935, 3751617.224, 533.91, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016370      VOLUME      471731.554 3751806.507 536.07
   LOCATION L0016371      VOLUME      471731.662 3751797.918 536.07
   LOCATION L0016372      VOLUME      471731.770 3751789.328 536.07
   LOCATION L0016373      VOLUME      471731.878 3751780.739 536.06
   LOCATION L0016374      VOLUME      471731.986 3751772.150 536.04
   LOCATION L0016375      VOLUME      471732.094 3751763.560 536.02
   LOCATION L0016376      VOLUME      471732.202 3751754.971 535.95
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    LOCATION L0016377      VOLUME      471732.310 3751746.382 535.69
    LOCATION L0016378      VOLUME      471732.418 3751737.793 535.43
    LOCATION L0016379      VOLUME      471732.527 3751729.203 535.18
    LOCATION L0016380      VOLUME      471732.635 3751720.614 535.10
    LOCATION L0016381      VOLUME      471732.743 3751712.025 535.11
    LOCATION L0016382      VOLUME      471732.851 3751703.435 535.11
    LOCATION L0016383      VOLUME      471732.959 3751694.846 535.11
    LOCATION L0016384      VOLUME      471733.067 3751686.257 535.12
    LOCATION L0016385      VOLUME      471733.175 3751677.667 535.12
    LOCATION L0016386      VOLUME      471733.283 3751669.078 535.12
    LOCATION L0016387      VOLUME      471733.391 3751660.489 534.92
    LOCATION L0016388      VOLUME      471733.499 3751651.899 534.64
    LOCATION L0016389      VOLUME      471733.607 3751643.310 534.36
    LOCATION L0016390      VOLUME      471733.715 3751634.721 534.14
    LOCATION L0016391      VOLUME      471733.823 3751626.131 534.14
    LOCATION L0016392      VOLUME      471733.931 3751617.542 534.15
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Bldg B Idle S
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00009627
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471217.858, 3751597.356, 526.24, 3.49, 4.00
** 471724.383, 3751599.262, 533.76, 3.49, 4.00
** ----------------------------------------------------------------------
    LOCATION L0016393      VOLUME      471222.153 3751597.372 526.54
    LOCATION L0016394      VOLUME      471230.743 3751597.404 527.31
    LOCATION L0016395      VOLUME      471239.333 3751597.436 528.08
    LOCATION L0016396      VOLUME      471247.923 3751597.469 528.85
    LOCATION L0016397      VOLUME      471256.513 3751597.501 529.23
    LOCATION L0016398      VOLUME      471265.103 3751597.533 529.52
    LOCATION L0016399      VOLUME      471273.693 3751597.566 529.80
    LOCATION L0016400      VOLUME      471282.283 3751597.598 530.22
    LOCATION L0016401      VOLUME      471290.873 3751597.630 530.91
    LOCATION L0016402      VOLUME      471299.463 3751597.663 531.59
    LOCATION L0016403      VOLUME      471308.053 3751597.695 532.28
    LOCATION L0016404      VOLUME      471316.643 3751597.727 533.42
    LOCATION L0016405      VOLUME      471325.233 3751597.760 534.65
    LOCATION L0016406      VOLUME      471333.823 3751597.792 535.89
    LOCATION L0016407      VOLUME      471342.412 3751597.824 536.73
    LOCATION L0016408      VOLUME      471351.002 3751597.857 536.82
    LOCATION L0016409      VOLUME      471359.592 3751597.889 536.90
    LOCATION L0016410      VOLUME      471368.182 3751597.921 536.99
    LOCATION L0016411      VOLUME      471376.772 3751597.954 536.59
    LOCATION L0016412      VOLUME      471385.362 3751597.986 536.10
    LOCATION L0016413      VOLUME      471393.952 3751598.018 535.61
    LOCATION L0016414      VOLUME      471402.542 3751598.051 535.09
    LOCATION L0016415      VOLUME      471411.132 3751598.083 534.51
    LOCATION L0016416      VOLUME      471419.722 3751598.115 533.94
    LOCATION L0016417      VOLUME      471428.312 3751598.148 533.37
    LOCATION L0016418      VOLUME      471436.902 3751598.180 533.04
    LOCATION L0016419      VOLUME      471445.492 3751598.212 532.75
    LOCATION L0016420      VOLUME      471454.082 3751598.245 532.46
    LOCATION L0016421      VOLUME      471462.672 3751598.277 532.07
    LOCATION L0016422      VOLUME      471471.262 3751598.309 531.50
    LOCATION L0016423      VOLUME      471479.851 3751598.342 530.92
    LOCATION L0016424      VOLUME      471488.441 3751598.374 530.35
    LOCATION L0016425      VOLUME      471497.031 3751598.406 530.27
    LOCATION L0016426      VOLUME      471505.621 3751598.439 530.27
    LOCATION L0016427      VOLUME      471514.211 3751598.471 530.27
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    LOCATION L0016428       VOLUME       471522.801 3751598.503 530.16
    LOCATION L0016429       VOLUME       471531.391 3751598.536 529.88
    LOCATION L0016430       VOLUME       471539.981 3751598.568 529.59
    LOCATION L0016431       VOLUME       471548.571 3751598.600 529.30
    LOCATION L0016432       VOLUME       471557.161 3751598.633 529.27
    LOCATION L0016433       VOLUME       471565.751 3751598.665 529.27
    LOCATION L0016434       VOLUME       471574.341 3751598.697 529.27
    LOCATION L0016435       VOLUME       471582.931 3751598.730 529.32
    LOCATION L0016436       VOLUME       471591.521 3751598.762 529.45
    LOCATION L0016437       VOLUME       471600.111 3751598.794 529.59
    LOCATION L0016438       VOLUME       471608.701 3751598.827 529.73
    LOCATION L0016439       VOLUME       471617.291 3751598.859 529.74
    LOCATION L0016440       VOLUME       471625.880 3751598.891 529.74
    LOCATION L0016441       VOLUME       471634.470 3751598.924 529.74
    LOCATION L0016442       VOLUME       471643.060 3751598.956 529.83
    LOCATION L0016443       VOLUME       471651.650 3751598.988 530.04
    LOCATION L0016444       VOLUME       471660.240 3751599.021 530.26
    LOCATION L0016445       VOLUME       471668.830 3751599.053 530.48
    LOCATION L0016446       VOLUME       471677.420 3751599.085 530.82
    LOCATION L0016447       VOLUME       471686.010 3751599.118 531.18
    LOCATION L0016448       VOLUME       471694.600 3751599.150 531.54
    LOCATION L0016449       VOLUME       471703.190 3751599.182 531.99
    LOCATION L0016450       VOLUME       471711.780 3751599.215 532.57
    LOCATION L0016451       VOLUME       471720.370 3751599.247 533.14
** End of LINE VOLUME Source ID = SLINE3
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Bldg A Idle N
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0001222
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471251.147, 3752185.400, 518.98, 3.49, 4.00
** 471719.138, 3752190.238, 525.15, 3.49, 4.00
** -------------------------------------------------------------------------
    LOCATION L0016452       VOLUME       471255.441 3752185.444 518.71
    LOCATION L0016453       VOLUME       471264.031 3752185.533 518.70
    LOCATION L0016454       VOLUME       471272.621 3752185.622 518.70
    LOCATION L0016455       VOLUME       471281.210 3752185.711 518.79
    LOCATION L0016456       VOLUME       471289.800 3752185.799 519.27
    LOCATION L0016457       VOLUME       471298.389 3752185.888 519.75
    LOCATION L0016458       VOLUME       471306.979 3752185.977 520.23
    LOCATION L0016459       VOLUME       471315.568 3752186.066 520.71
    LOCATION L0016460       VOLUME       471324.158 3752186.155 521.19
    LOCATION L0016461       VOLUME       471332.747 3752186.243 521.66
    LOCATION L0016462       VOLUME       471341.337 3752186.332 522.11
    LOCATION L0016463       VOLUME       471349.926 3752186.421 522.48
    LOCATION L0016464       VOLUME       471358.516 3752186.510 522.85
    LOCATION L0016465       VOLUME       471367.105 3752186.599 523.23
    LOCATION L0016466       VOLUME       471375.695 3752186.687 523.54
    LOCATION L0016467       VOLUME       471384.285 3752186.776 523.82
    LOCATION L0016468       VOLUME       471392.874 3752186.865 524.10
    LOCATION L0016469       VOLUME       471401.464 3752186.954 524.44
    LOCATION L0016470       VOLUME       471410.053 3752187.043 525.01
    LOCATION L0016471       VOLUME       471418.643 3752187.131 525.57
    LOCATION L0016472       VOLUME       471427.232 3752187.220 526.14
    LOCATION L0016473       VOLUME       471435.822 3752187.309 526.63
    LOCATION L0016474       VOLUME       471444.411 3752187.398 527.10
    LOCATION L0016475       VOLUME       471453.001 3752187.487 527.56
    LOCATION L0016476       VOLUME       471461.590 3752187.575 527.93
    LOCATION L0016477       VOLUME       471470.180 3752187.664 527.99
    LOCATION L0016478       VOLUME       471478.769 3752187.753 528.05
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   LOCATION L0016479      VOLUME      471487.359 3752187.842 528.11
   LOCATION L0016480      VOLUME      471495.949 3752187.931 528.20
   LOCATION L0016481      VOLUME      471504.538 3752188.019 528.29
   LOCATION L0016482      VOLUME      471513.128 3752188.108 528.39
   LOCATION L0016483      VOLUME      471521.717 3752188.197 528.37
   LOCATION L0016484      VOLUME      471530.307 3752188.286 528.01
   LOCATION L0016485      VOLUME      471538.896 3752188.375 527.65
   LOCATION L0016486      VOLUME      471547.486 3752188.463 527.30
   LOCATION L0016487      VOLUME      471556.075 3752188.552 526.77
   LOCATION L0016488      VOLUME      471564.665 3752188.641 526.19
   LOCATION L0016489      VOLUME      471573.254 3752188.730 525.61
   LOCATION L0016490      VOLUME      471581.844 3752188.819 525.26
   LOCATION L0016491      VOLUME      471590.434 3752188.907 525.54
   LOCATION L0016492      VOLUME      471599.023 3752188.996 525.82
   LOCATION L0016493      VOLUME      471607.613 3752189.085 526.11
   LOCATION L0016494      VOLUME      471616.202 3752189.174 526.26
   LOCATION L0016495      VOLUME      471624.792 3752189.263 526.37
   LOCATION L0016496      VOLUME      471633.381 3752189.351 526.49
   LOCATION L0016497      VOLUME      471641.971 3752189.440 526.57
   LOCATION L0016498      VOLUME      471650.560 3752189.529 526.57
   LOCATION L0016499      VOLUME      471659.150 3752189.618 526.57
   LOCATION L0016500      VOLUME      471667.739 3752189.707 526.56
   LOCATION L0016501      VOLUME      471676.329 3752189.795 526.43
   LOCATION L0016502      VOLUME      471684.918 3752189.884 526.27
   LOCATION L0016503      VOLUME      471693.508 3752189.973 526.11
   LOCATION L0016504      VOLUME      471702.098 3752190.062 525.83
   LOCATION L0016505      VOLUME      471710.687 3752190.151 525.26
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Bldg A Idle S
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0001222
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471252.466, 3751968.998, 522.95, 3.49, 4.00
** 471720.018, 3751974.716, 531.23, 3.49, 4.00
** ----------------------------------------------------------------------
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   LOCATION L0016507      VOLUME      471265.350 3751969.155 521.87
   LOCATION L0016508      VOLUME      471273.940 3751969.260 521.40
   LOCATION L0016509      VOLUME      471282.529 3751969.365 521.19
   LOCATION L0016510      VOLUME      471291.118 3751969.470 521.48
   LOCATION L0016511      VOLUME      471299.708 3751969.575 521.77
   LOCATION L0016512      VOLUME      471308.297 3751969.680 522.06
   LOCATION L0016513      VOLUME      471316.886 3751969.785 522.35
   LOCATION L0016514      VOLUME      471325.476 3751969.891 522.64
   LOCATION L0016515      VOLUME      471334.065 3751969.996 522.93
   LOCATION L0016516      VOLUME      471342.654 3751970.101 523.23
   LOCATION L0016517      VOLUME      471351.244 3751970.206 523.55
   LOCATION L0016518      VOLUME      471359.833 3751970.311 523.88
   LOCATION L0016519      VOLUME      471368.423 3751970.416 524.21
   LOCATION L0016520      VOLUME      471377.012 3751970.521 525.00
   LOCATION L0016521      VOLUME      471385.601 3751970.626 525.87
   LOCATION L0016522      VOLUME      471394.191 3751970.731 526.74
   LOCATION L0016523      VOLUME      471402.780 3751970.836 527.39
   LOCATION L0016524      VOLUME      471411.369 3751970.941 527.68
   LOCATION L0016525      VOLUME      471419.959 3751971.046 527.97
   LOCATION L0016526      VOLUME      471428.548 3751971.151 528.27
   LOCATION L0016527      VOLUME      471437.137 3751971.256 528.74
   LOCATION L0016528      VOLUME      471445.727 3751971.361 529.22
   LOCATION L0016529      VOLUME      471454.316 3751971.466 529.71
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   LOCATION L0016530       VOLUME    471462.905 3751971.571 530.09
   LOCATION L0016531       VOLUME    471471.495 3751971.676 530.33
   LOCATION L0016532       VOLUME    471480.084 3751971.781 530.57
   LOCATION L0016533       VOLUME    471488.674 3751971.886 530.80
   LOCATION L0016534       VOLUME    471497.263 3751971.991 531.03
   LOCATION L0016535       VOLUME    471505.852 3751972.096 531.26
   LOCATION L0016536       VOLUME    471514.442 3751972.201 531.49
   LOCATION L0016537       VOLUME    471523.031 3751972.307 531.90
   LOCATION L0016538       VOLUME    471531.620 3751972.412 532.57
   LOCATION L0016539       VOLUME    471540.210 3751972.517 533.25
   LOCATION L0016540       VOLUME    471548.799 3751972.622 533.94
   LOCATION L0016541       VOLUME    471557.388 3751972.727 534.52
   LOCATION L0016542       VOLUME    471565.978 3751972.832 535.09
   LOCATION L0016543       VOLUME    471574.567 3751972.937 535.67
   LOCATION L0016544       VOLUME    471583.156 3751973.042 536.00
   LOCATION L0016545       VOLUME    471591.746 3751973.147 536.00
   LOCATION L0016546       VOLUME    471600.335 3751973.252 536.00
   LOCATION L0016547       VOLUME    471608.925 3751973.357 536.00
   LOCATION L0016548       VOLUME    471617.514 3751973.462 535.73
   LOCATION L0016549       VOLUME    471626.103 3751973.567 535.45
   LOCATION L0016550       VOLUME    471634.693 3751973.672 535.16
   LOCATION L0016551       VOLUME    471643.282 3751973.777 534.75
   LOCATION L0016552       VOLUME    471651.871 3751973.882 534.18
   LOCATION L0016553       VOLUME    471660.461 3751973.987 533.61
   LOCATION L0016554       VOLUME    471669.050 3751974.092 533.03
   LOCATION L0016555       VOLUME    471677.639 3751974.197 532.73
   LOCATION L0016556       VOLUME    471686.229 3751974.302 532.44
   LOCATION L0016557       VOLUME    471694.818 3751974.407 532.16
   LOCATION L0016558       VOLUME    471703.407 3751974.512 531.84
   LOCATION L0016559       VOLUME    471711.997 3751974.617 531.48
** End of LINE VOLUME Source ID = SLINE5
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Bldg C Idle W
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00006003
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471844.958, 3752167.382, 521.40, 3.49, 4.00
** 471846.645, 3751987.702, 534.85, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016560       VOLUME    471844.998 3752163.087 522.13
   LOCATION L0016561       VOLUME    471845.078 3752154.498 522.95
   LOCATION L0016562       VOLUME    471845.159 3752145.908 523.76
   LOCATION L0016563       VOLUME    471845.240 3752137.319 524.38
   LOCATION L0016564       VOLUME    471845.320 3752128.729 524.99
   LOCATION L0016565       VOLUME    471845.401 3752120.139 525.61
   LOCATION L0016566       VOLUME    471845.482 3752111.550 526.18
   LOCATION L0016567       VOLUME    471845.562 3752102.960 526.72
   LOCATION L0016568       VOLUME    471845.643 3752094.370 527.26
   LOCATION L0016569       VOLUME    471845.724 3752085.781 527.80
   LOCATION L0016570       VOLUME    471845.804 3752077.191 528.34
   LOCATION L0016571       VOLUME    471845.885 3752068.602 528.88
   LOCATION L0016572       VOLUME    471845.966 3752060.012 529.43
   LOCATION L0016573       VOLUME    471846.046 3752051.422 529.97
   LOCATION L0016574       VOLUME    471846.127 3752042.833 530.52
   LOCATION L0016575       VOLUME    471846.208 3752034.243 531.07
   LOCATION L0016576       VOLUME    471846.288 3752025.654 531.66
   LOCATION L0016577       VOLUME    471846.369 3752017.064 532.50
   LOCATION L0016578       VOLUME    471846.450 3752008.474 533.34
   LOCATION L0016579       VOLUME    471846.530 3751999.885 534.18
   LOCATION L0016580       VOLUME    471846.611 3751991.295 534.70
```

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** End of LINE VOLUME Source ID = SLINE6
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Bldg D Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.478E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471848.332, 3751808.021, 538.89, 3.49, 4.00
** 471849.175, 3751696.670, 539.00, 3.49, 4.00
** -------------------------------------------------------------------------
   LOCATION L0016581     VOLUME    471848.364 3751803.726 538.96
   LOCATION L0016582     VOLUME    471848.429 3751795.136 538.96
   LOCATION L0016583     VOLUME    471848.494 3751786.547 538.96
   LOCATION L0016584     VOLUME    471848.560 3751777.957 538.97
   LOCATION L0016585     VOLUME    471848.625 3751769.367 538.97
   LOCATION L0016586     VOLUME    471848.690 3751760.777 538.97
   LOCATION L0016587     VOLUME    471848.755 3751752.188 538.97
   LOCATION L0016588     VOLUME    471848.820 3751743.598 538.98
   LOCATION L0016589     VOLUME    471848.885 3751735.008 538.98
   LOCATION L0016590     VOLUME    471848.950 3751726.418 538.98
   LOCATION L0016591     VOLUME    471849.015 3751717.829 538.98
   LOCATION L0016592     VOLUME    471849.080 3751709.239 538.98
   LOCATION L0016593     VOLUME    471849.145 3751700.649 538.99
** End of LINE VOLUME Source ID = SLINE7
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Bldg E Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.847E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471495.234, 3751418.628, 533.74, 3.49, 4.00
** 471496.921, 3751256.648, 527.16, 3.49, 4.00
** -------------------------------------------------------------------------
   LOCATION L0016594     VOLUME    471495.278 3751414.333 533.29
   LOCATION L0016595     VOLUME    471495.368 3751405.744 533.05
   LOCATION L0016596     VOLUME    471495.457 3751397.154 532.82
   LOCATION L0016597     VOLUME    471495.547 3751388.565 532.26
   LOCATION L0016598     VOLUME    471495.636 3751379.975 531.69
   LOCATION L0016599     VOLUME    471495.726 3751371.386 531.11
   LOCATION L0016600     VOLUME    471495.815 3751362.796 530.66
   LOCATION L0016601     VOLUME    471495.905 3751354.206 530.37
   LOCATION L0016602     VOLUME    471495.994 3751345.617 530.08
   LOCATION L0016603     VOLUME    471496.084 3751337.027 529.79
   LOCATION L0016604     VOLUME    471496.173 3751328.438 529.35
   LOCATION L0016605     VOLUME    471496.263 3751319.848 528.91
   LOCATION L0016606     VOLUME    471496.352 3751311.259 528.46
   LOCATION L0016607     VOLUME    471496.442 3751302.669 528.23
   LOCATION L0016608     VOLUME    471496.531 3751294.080 528.23
   LOCATION L0016609     VOLUME    471496.621 3751285.490 528.24
   LOCATION L0016610     VOLUME    471496.710 3751276.901 528.24
   LOCATION L0016611     VOLUME    471496.799 3751268.311 527.96
   LOCATION L0016612     VOLUME    471496.889 3751259.722 527.68
** End of LINE VOLUME Source ID = SLINE8
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
```

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** DESCRSRC Bldg F Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.847E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471394.840, 3751418.628, 536.93, 3.49, 4.00
** 471396.527, 3751256.648, 524.17, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016613     VOLUME     471394.884 3751414.333 536.74
   LOCATION L0016614     VOLUME     471394.974 3751405.744 536.46
   LOCATION L0016615     VOLUME     471395.063 3751397.154 536.17
   LOCATION L0016616     VOLUME     471395.153 3751388.565 535.57
   LOCATION L0016617     VOLUME     471395.242 3751379.975 534.95
   LOCATION L0016618     VOLUME     471395.332 3751371.386 534.34
   LOCATION L0016619     VOLUME     471395.421 3751362.796 533.49
   LOCATION L0016620     VOLUME     471395.511 3751354.206 532.34
   LOCATION L0016621     VOLUME     471395.600 3751345.617 531.19
   LOCATION L0016622     VOLUME     471395.690 3751337.027 530.05
   LOCATION L0016623     VOLUME     471395.779 3751328.438 529.45
   LOCATION L0016624     VOLUME     471395.869 3751319.848 528.88
   LOCATION L0016625     VOLUME     471395.958 3751311.259 528.31
   LOCATION L0016626     VOLUME     471396.048 3751302.669 527.73
   LOCATION L0016627     VOLUME     471396.137 3751294.080 527.16
   LOCATION L0016628     VOLUME     471396.226 3751285.490 526.59
   LOCATION L0016629     VOLUME     471396.316 3751276.901 526.02
   LOCATION L0016630     VOLUME     471396.405 3751268.311 525.47
   LOCATION L0016631     VOLUME     471396.495 3751259.722 524.93
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Bldg G Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.847E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471156.087, 3752325.549, 512.95, 3.49, 4.00
** 471266.605, 3752327.237, 512.60, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016632     VOLUME     471160.382 3752325.615 512.97
   LOCATION L0016633     VOLUME     471168.971 3752325.746 512.99
   LOCATION L0016634     VOLUME     471177.560 3752325.877 513.01
   LOCATION L0016635     VOLUME     471186.149 3752326.008 513.02
   LOCATION L0016636     VOLUME     471194.738 3752326.140 513.02
   LOCATION L0016637     VOLUME     471203.327 3752326.271 513.01
   LOCATION L0016638     VOLUME     471211.916 3752326.402 513.01
   LOCATION L0016639     VOLUME     471220.505 3752326.533 512.97
   LOCATION L0016640     VOLUME     471229.094 3752326.664 512.68
   LOCATION L0016641     VOLUME     471237.683 3752326.795 512.39
   LOCATION L0016642     VOLUME     471246.272 3752326.926 512.09
   LOCATION L0016643     VOLUME     471254.861 3752327.057 512.15
   LOCATION L0016644     VOLUME     471263.450 3752327.189 512.44
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Bldg H Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
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** Emission Rate = 1.847E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471393.152, 3752327.237, 512.28, 3.49, 4.00
** 471503.670, 3752328.924, 519.82, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0016645      VOLUME    471397.447 3752327.302 512.14
   LOCATION L0016646      VOLUME    471406.036 3752327.433 512.21
   LOCATION L0016647      VOLUME    471414.625 3752327.565 512.49
   LOCATION L0016648      VOLUME    471423.214 3752327.696 512.76
   LOCATION L0016649      VOLUME    471431.803 3752327.827 513.33
   LOCATION L0016650      VOLUME    471440.392 3752327.958 514.73
   LOCATION L0016651      VOLUME    471448.981 3752328.089 516.13
   LOCATION L0016652      VOLUME    471457.570 3752328.220 517.52
   LOCATION L0016653      VOLUME    471466.159 3752328.351 518.29
   LOCATION L0016654      VOLUME    471474.748 3752328.482 518.89
   LOCATION L0016655      VOLUME    471483.337 3752328.614 519.49
   LOCATION L0016656      VOLUME    471491.926 3752328.745 519.94
   LOCATION L0016657      VOLUME    471500.515 3752328.876 519.95
** End of LINE VOLUME Source ID = SLINE11
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Bldg C Idle E
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00006003
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 472046.003, 3751988.091, 524.61, 3.49, 4.00
** 472044.174, 3752209.964, 521.00, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0016658      VOLUME    472045.968 3751992.386 524.08
   LOCATION L0016659      VOLUME    472045.897 3752000.975 524.51
   LOCATION L0016660      VOLUME    472045.826 3752009.565 524.81
   LOCATION L0016661      VOLUME    472045.755 3752018.155 525.10
   LOCATION L0016662      VOLUME    472045.684 3752026.744 525.39
   LOCATION L0016663      VOLUME    472045.614 3752035.334 525.40
   LOCATION L0016664      VOLUME    472045.543 3752043.924 525.40
   LOCATION L0016665      VOLUME    472045.472 3752052.513 525.41
   LOCATION L0016666      VOLUME    472045.401 3752061.103 525.50
   LOCATION L0016667      VOLUME    472045.330 3752069.693 525.65
   LOCATION L0016668      VOLUME    472045.260 3752078.283 525.81
   LOCATION L0016669      VOLUME    472045.189 3752086.872 525.96
   LOCATION L0016670      VOLUME    472045.118 3752095.462 525.82
   LOCATION L0016671      VOLUME    472045.047 3752104.052 525.69
   LOCATION L0016672      VOLUME    472044.976 3752112.641 525.55
   LOCATION L0016673      VOLUME    472044.906 3752121.231 525.26
   LOCATION L0016674      VOLUME    472044.835 3752129.821 524.84
   LOCATION L0016675      VOLUME    472044.764 3752138.411 524.41
   LOCATION L0016676      VOLUME    472044.693 3752147.000 523.98
   LOCATION L0016677      VOLUME    472044.623 3752155.590 523.55
   LOCATION L0016678      VOLUME    472044.552 3752164.180 523.12
   LOCATION L0016679      VOLUME    472044.481 3752172.769 522.70
   LOCATION L0016680      VOLUME    472044.410 3752181.359 522.27
   LOCATION L0016681      VOLUME    472044.339 3752189.949 521.84
   LOCATION L0016682      VOLUME    472044.269 3752198.539 521.41
   LOCATION L0016683      VOLUME    472044.198 3752207.128 520.98
** End of LINE VOLUME Source ID = SLINE12
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Bldg J Idle
```

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** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.441E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471627.857, 3752328.825, 518.00, 3.49, 4.00
** 471724.774, 3752329.434, 518.03, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0016684      VOLUME     471632.152 3752328.852 517.72
   LOCATION L0016685      VOLUME     471640.742 3752328.906 517.67
   LOCATION L0016686      VOLUME     471649.332 3752328.960 517.99
   LOCATION L0016687      VOLUME     471657.922 3752329.014 518.31
   LOCATION L0016688      VOLUME     471666.512 3752329.068 518.64
   LOCATION L0016689      VOLUME     471675.101 3752329.122 518.58
   LOCATION L0016690      VOLUME     471683.691 3752329.176 518.32
   LOCATION L0016691      VOLUME     471692.281 3752329.230 518.05
   LOCATION L0016692      VOLUME     471700.871 3752329.284 517.82
   LOCATION L0016693      VOLUME     471709.461 3752329.338 517.79
   LOCATION L0016694      VOLUME     471718.051 3752329.392 517.76
** End of LINE VOLUME Source ID = SLINE13
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Bldg K Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.847E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471873.503, 3752330.653, 515.74, 3.49, 4.00
** 472056.365, 3752331.872, 509.32, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0016695      VOLUME     471877.798 3752330.682 515.70
   LOCATION L0016696      VOLUME     471886.387 3752330.739 515.86
   LOCATION L0016697      VOLUME     471894.977 3752330.796 515.86
   LOCATION L0016698      VOLUME     471903.567 3752330.854 515.86
   LOCATION L0016699      VOLUME     471912.157 3752330.911 515.77
   LOCATION L0016700      VOLUME     471920.747 3752330.968 515.48
   LOCATION L0016701      VOLUME     471929.336 3752331.025 515.19
   LOCATION L0016702      VOLUME     471937.926 3752331.083 514.91
   LOCATION L0016703      VOLUME     471946.516 3752331.140 515.05
   LOCATION L0016704      VOLUME     471955.106 3752331.197 515.29
   LOCATION L0016705      VOLUME     471963.696 3752331.254 515.53
   LOCATION L0016706      VOLUME     471972.285 3752331.312 515.43
   LOCATION L0016707      VOLUME     471980.875 3752331.369 514.61
   LOCATION L0016708      VOLUME     471989.465 3752331.426 513.80
   LOCATION L0016709      VOLUME     471998.055 3752331.484 512.98
   LOCATION L0016710      VOLUME     472006.645 3752331.541 512.56
   LOCATION L0016711      VOLUME     472015.235 3752331.598 512.23
   LOCATION L0016712      VOLUME     472023.824 3752331.655 511.89
   LOCATION L0016713      VOLUME     472032.414 3752331.713 511.36
   LOCATION L0016714      VOLUME     472041.004 3752331.770 510.45
   LOCATION L0016715      VOLUME     472049.594 3752331.827 509.54
** End of LINE VOLUME Source ID = SLINE14
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC MU 98k N Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.779E-07
```

```
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471072.464, 3752159.486, 511.77, 3.49, 4.00
** 471071.658, 3752273.135, 508.16, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016716      VOLUME     471072.433 3752163.781 510.49
   LOCATION L0016717      VOLUME     471072.372 3752172.371 509.68
   LOCATION L0016718      VOLUME     471072.311 3752180.961 509.12
   LOCATION L0016719      VOLUME     471072.250 3752189.550 508.80
   LOCATION L0016720      VOLUME     471072.189 3752198.140 508.49
   LOCATION L0016721      VOLUME     471072.129 3752206.730 508.17
   LOCATION L0016722      VOLUME     471072.068 3752215.320 508.43
   LOCATION L0016723      VOLUME     471072.007 3752223.910 508.69
   LOCATION L0016724      VOLUME     471071.946 3752232.499 508.95
   LOCATION L0016725      VOLUME     471071.885 3752241.089 508.95
   LOCATION L0016726      VOLUME     471071.824 3752249.679 508.71
   LOCATION L0016727      VOLUME     471071.763 3752258.269 508.46
   LOCATION L0016728      VOLUME     471071.702 3752266.858 508.21
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC MU 77k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.898E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471007.982, 3751965.235, 512.00, 3.49, 4.00
** 471030.551, 3752021.657, 514.79, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016729      VOLUME     471009.577 3751969.223 512.09
   LOCATION L0016730      VOLUME     471012.767 3751977.199 512.46
   LOCATION L0016731      VOLUME     471015.958 3751985.174 512.83
   LOCATION L0016732      VOLUME     471019.148 3751993.150 513.20
   LOCATION L0016733      VOLUME     471022.338 3752001.125 513.58
   LOCATION L0016734      VOLUME     471025.528 3752009.101 513.95
   LOCATION L0016735      VOLUME     471028.719 3752017.077 514.32
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC MU 131k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.174E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471015.236, 3751733.907, 517.21, 3.49, 4.00
** 471015.236, 3751822.569, 516.68, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0016736      VOLUME     471015.236 3751738.202 516.73
   LOCATION L0016737      VOLUME     471015.236 3751746.792 516.39
   LOCATION L0016738      VOLUME     471015.236 3751755.382 516.05
   LOCATION L0016739      VOLUME     471015.236 3751763.972 515.91
   LOCATION L0016740      VOLUME     471015.236 3751772.562 515.80
   LOCATION L0016741      VOLUME     471015.236 3751781.152 515.69
   LOCATION L0016742      VOLUME     471015.236 3751789.742 515.68
   LOCATION L0016743      VOLUME     471015.236 3751798.332 515.86
   LOCATION L0016744      VOLUME     471015.236 3751806.922 516.04
   LOCATION L0016745      VOLUME     471015.236 3751815.512 516.22
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** End of LINE VOLUME Source ID = SLINE17
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC MU 98k S Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.779E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471016.042, 3751595.271, 519.80, 3.49, 4.00
** 471016.042, 3751684.740, 519.18, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0016746      VOLUME    471016.042 3751599.566 520.02
   LOCATION L0016747      VOLUME    471016.042 3751608.156 519.70
   LOCATION L0016748      VOLUME    471016.042 3751616.746 519.99
   LOCATION L0016749      VOLUME    471016.042 3751625.336 520.27
   LOCATION L0016750      VOLUME    471016.042 3751633.926 520.56
   LOCATION L0016751      VOLUME    471016.042 3751642.516 520.61
   LOCATION L0016752      VOLUME    471016.042 3751651.106 520.55
   LOCATION L0016753      VOLUME    471016.042 3751659.696 520.48
   LOCATION L0016754      VOLUME    471016.042 3751668.286 520.36
   LOCATION L0016755      VOLUME    471016.042 3751676.876 519.95
** End of LINE VOLUME Source ID = SLINE18
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC MU 110k Idle
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.855E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471161.126, 3751442.127, 525.48, 3.49, 4.00
** 471161.126, 3751322.836, 523.77, 3.49, 4.00
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   LOCATION L0016756      VOLUME    471161.126 3751437.832 525.41
   LOCATION L0016757      VOLUME    471161.126 3751429.242 525.13
   LOCATION L0016758      VOLUME    471161.126 3751420.652 524.86
   LOCATION L0016759      VOLUME    471161.126 3751412.062 524.59
   LOCATION L0016760      VOLUME    471161.126 3751403.472 524.32
   LOCATION L0016761      VOLUME    471161.126 3751394.882 524.16
   LOCATION L0016762      VOLUME    471161.126 3751386.292 524.43
   LOCATION L0016763      VOLUME    471161.126 3751377.702 524.70
   LOCATION L0016764      VOLUME    471161.126 3751369.112 524.98
   LOCATION L0016765      VOLUME    471161.126 3751360.522 524.86
   LOCATION L0016766      VOLUME    471161.126 3751351.932 524.59
   LOCATION L0016767      VOLUME    471161.126 3751343.342 524.32
   LOCATION L0016768      VOLUME    471161.126 3751334.752 524.04
   LOCATION L0016769      VOLUME    471161.126 3751326.162 523.76
** End of LINE VOLUME Source ID = SLINE19
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Cactus 40%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0000519
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
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**  471783.009, 3751890.344, 534.89, 3.49, 6.51
**  471064.829, 3751884.263, 512.97, 3.49, 6.51
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   LOCATION L0014246      VOLUME      471776.009 3751890.284 534.88
   LOCATION L0014247      VOLUME      471762.010 3751890.166 534.68
   LOCATION L0014248      VOLUME      471748.010 3751890.047 535.18
   LOCATION L0014249      VOLUME      471734.011 3751889.929 535.80
   LOCATION L0014250      VOLUME      471720.011 3751889.810 536.00
   LOCATION L0014251      VOLUME      471706.012 3751889.692 536.00
   LOCATION L0014252      VOLUME      471692.012 3751889.573 536.00
   LOCATION L0014253      VOLUME      471678.013 3751889.455 536.00
   LOCATION L0014254      VOLUME      471664.013 3751889.336 536.00
   LOCATION L0014255      VOLUME      471650.014 3751889.218 536.00
   LOCATION L0014256      VOLUME      471636.014 3751889.099 536.00
   LOCATION L0014257      VOLUME      471622.015 3751888.981 536.00
   LOCATION L0014258      VOLUME      471608.015 3751888.862 536.00
   LOCATION L0014259      VOLUME      471594.016 3751888.744 536.00
   LOCATION L0014260      VOLUME      471580.016 3751888.625 536.00
   LOCATION L0014261      VOLUME      471566.017 3751888.507 535.37
   LOCATION L0014262      VOLUME      471552.017 3751888.388 534.72
   LOCATION L0014263      VOLUME      471538.018 3751888.270 533.61
   LOCATION L0014264      VOLUME      471524.018 3751888.151 532.39
   LOCATION L0014265      VOLUME      471510.019 3751888.032 531.48
   LOCATION L0014266      VOLUME      471496.020 3751887.914 530.73
   LOCATION L0014267      VOLUME      471482.020 3751887.795 529.87
   LOCATION L0014268      VOLUME      471468.021 3751887.677 528.93
   LOCATION L0014269      VOLUME      471454.021 3751887.558 528.18
   LOCATION L0014270      VOLUME      471440.022 3751887.440 527.71
   LOCATION L0014271      VOLUME      471426.022 3751887.321 527.08
   LOCATION L0014272      VOLUME      471412.023 3751887.203 525.98
   LOCATION L0014273      VOLUME      471398.023 3751887.084 524.95
   LOCATION L0014274      VOLUME      471384.024 3751886.966 524.48
   LOCATION L0014275      VOLUME      471370.024 3751886.847 524.02
   LOCATION L0014276      VOLUME      471356.025 3751886.729 523.55
   LOCATION L0014277      VOLUME      471342.025 3751886.610 523.08
   LOCATION L0014278      VOLUME      471328.026 3751886.492 522.87
   LOCATION L0014279      VOLUME      471314.026 3751886.373 522.72
   LOCATION L0014280      VOLUME      471300.027 3751886.255 522.67
   LOCATION L0014281      VOLUME      471286.027 3751886.136 522.64
   LOCATION L0014282      VOLUME      471272.028 3751886.018 522.97
   LOCATION L0014283      VOLUME      471258.028 3751885.899 523.61
   LOCATION L0014284      VOLUME      471244.029 3751885.781 524.18
   LOCATION L0014285      VOLUME      471230.029 3751885.662 524.65
   LOCATION L0014286      VOLUME      471216.030 3751885.544 525.00
   LOCATION L0014287      VOLUME      471202.030 3751885.425 525.00
   LOCATION L0014288      VOLUME      471188.031 3751885.306 524.95
   LOCATION L0014289      VOLUME      471174.031 3751885.188 524.48
   LOCATION L0014290      VOLUME      471160.032 3751885.069 524.02
   LOCATION L0014291      VOLUME      471146.032 3751884.951 522.20
   LOCATION L0014292      VOLUME      471132.033 3751884.832 520.33
   LOCATION L0014293      VOLUME      471118.033 3751884.714 518.95
   LOCATION L0014294      VOLUME      471104.034 3751884.595 517.67
   LOCATION L0014295      VOLUME      471090.034 3751884.477 516.08
   LOCATION L0014296      VOLUME      471076.035 3751884.358 514.32
** End of LINE VOLUME Source ID = SLINE20
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Cactus 100%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0003059
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 21
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**  471783.009, 3751890.701, 534.84, 3.49, 6.51
**  471937.518, 3751892.847, 532.73, 3.49, 6.51
**  471967.919, 3751890.344, 530.29, 3.49, 6.51
**  472028.721, 3751881.402, 531.03, 3.49, 6.51
**  472138.165, 3751849.928, 525.23, 3.49, 6.51
**  472190.026, 3751839.556, 518.48, 3.49, 6.51
**  472251.185, 3751834.906, 516.97, 3.49, 6.51
**  472386.023, 3751843.848, 505.08, 3.49, 6.51
**  472605.268, 3751861.731, 494.77, 3.49, 6.51
**  472649.618, 3751864.950, 492.96, 3.49, 6.51
**  472678.946, 3751868.526, 491.74, 3.49, 6.51
**  472893.551, 3751939.433, 487.93, 3.49, 6.51
**  473010.361, 3751979.489, 485.25, 3.49, 6.51
**  473047.316, 3751993.703, 484.02, 3.49, 6.51
**  473088.923, 3752005.590, 483.14, 3.49, 6.51
**  473118.125, 3752011.792, 482.83, 3.49, 6.51
**  473170.069, 3752017.736, 481.18, 3.49, 6.51
**  473234.052, 3752016.140, 480.06, 3.49, 6.51
**  473315.533, 3752022.220, 478.02, 3.49, 6.51
**  473422.857, 3752035.902, 475.57, 3.49, 6.51
**  473443.227, 3752040.462, 475.45, 3.49, 6.51
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    LOCATION L0014298      VOLUME     471804.007 3751890.993 535.50
    LOCATION L0014299      VOLUME     471818.006 3751891.187 535.95
    LOCATION L0014300      VOLUME     471832.004 3751891.382 536.41
    LOCATION L0014301      VOLUME     471846.003 3751891.576 536.88
    LOCATION L0014302      VOLUME     471860.002 3751891.771 537.00
    LOCATION L0014303      VOLUME     471874.000 3751891.965 537.00
    LOCATION L0014304      VOLUME     471887.999 3751892.160 536.57
    LOCATION L0014305      VOLUME     471901.998 3751892.354 535.86
    LOCATION L0014306      VOLUME     471915.996 3751892.548 534.93
    LOCATION L0014307      VOLUME     471929.995 3751892.743 533.74
    LOCATION L0014308      VOLUME     471943.972 3751892.316 532.52
    LOCATION L0014309      VOLUME     471957.925 3751891.167 531.20
    LOCATION L0014310      VOLUME     471971.849 3751889.766 530.20
    LOCATION L0014311      VOLUME     471985.700 3751887.729 530.80
    LOCATION L0014312      VOLUME     471999.551 3751885.692 531.40
    LOCATION L0014313      VOLUME     472013.402 3751883.655 531.29
    LOCATION L0014314      VOLUME     472027.253 3751881.618 531.05
    LOCATION L0014315      VOLUME     472040.750 3751877.943 530.56
    LOCATION L0014316      VOLUME     472054.205 3751874.074 530.33
    LOCATION L0014317      VOLUME     472067.659 3751870.204 530.37
    LOCATION L0014318      VOLUME     472081.114 3751866.335 530.44
    LOCATION L0014319      VOLUME     472094.569 3751862.466 530.23
    LOCATION L0014320      VOLUME     472108.023 3751858.596 529.62
    LOCATION L0014321      VOLUME     472121.478 3751854.727 528.67
    LOCATION L0014322      VOLUME     472134.933 3751850.858 526.15
    LOCATION L0014323      VOLUME     472148.595 3751847.842 523.31
    LOCATION L0014324      VOLUME     472162.323 3751845.097 520.97
    LOCATION L0014325      VOLUME     472176.051 3751842.351 518.98
    LOCATION L0014326      VOLUME     472189.780 3751839.605 518.44
    LOCATION L0014327      VOLUME     472203.735 3751838.514 518.22
    LOCATION L0014328      VOLUME     472217.695 3751837.453 518.31
    LOCATION L0014329      VOLUME     472231.655 3751836.391 518.62
    LOCATION L0014330      VOLUME     472245.614 3751835.330 517.95
    LOCATION L0014331      VOLUME     472259.580 3751835.463 515.78
    LOCATION L0014332      VOLUME     472273.549 3751836.389 513.78
    LOCATION L0014333      VOLUME     472287.518 3751837.316 512.71
    LOCATION L0014334      VOLUME     472301.488 3751838.242 511.78
    LOCATION L0014335      VOLUME     472315.457 3751839.168 511.22
    LOCATION L0014336      VOLUME     472329.426 3751840.095 510.66
    LOCATION L0014337      VOLUME     472343.396 3751841.021 508.72
    LOCATION L0014338      VOLUME     472357.365 3751841.948 506.77
    LOCATION L0014339      VOLUME     472371.334 3751842.874 505.94
    LOCATION L0014340      VOLUME     472385.304 3751843.800 505.35
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LOCATION L0014341      VOLUME      472399.258 3751844.927 505.10
LOCATION L0014342      VOLUME      472413.212 3751846.066 505.02
LOCATION L0014343      VOLUME      472427.165 3751847.204 505.24
LOCATION L0014344      VOLUME      472441.119 3751848.342 505.70
LOCATION L0014345      VOLUME      472455.073 3751849.480 505.67
LOCATION L0014346      VOLUME      472469.026 3751850.618 504.88
LOCATION L0014347      VOLUME      472482.980 3751851.756 504.02
LOCATION L0014348      VOLUME      472496.934 3751852.894 502.80
LOCATION L0014349      VOLUME      472510.887 3751854.033 501.69
LOCATION L0014350      VOLUME      472524.841 3751855.171 501.20
LOCATION L0014351      VOLUME      472538.795 3751856.309 500.68
LOCATION L0014352      VOLUME      472552.748 3751857.447 499.69
LOCATION L0014353      VOLUME      472566.702 3751858.585 498.63
LOCATION L0014354      VOLUME      472580.656 3751859.723 496.96
LOCATION L0014355      VOLUME      472594.609 3751860.861 495.14
LOCATION L0014356      VOLUME      472608.565 3751861.970 494.36
LOCATION L0014357      VOLUME      472622.528 3751862.984 494.13
LOCATION L0014358      VOLUME      472636.492 3751863.997 493.73
LOCATION L0014359      VOLUME      472650.451 3751865.051 493.15
LOCATION L0014360      VOLUME      472664.348 3751866.746 492.55
LOCATION L0014361      VOLUME      472678.245 3751868.441 492.09
LOCATION L0014362      VOLUME      472691.569 3751872.697 491.45
LOCATION L0014363      VOLUME      472704.862 3751877.089 491.48
LOCATION L0014364      VOLUME      472718.155 3751881.481 491.34
LOCATION L0014365      VOLUME      472731.448 3751885.873 491.16
LOCATION L0014366      VOLUME      472744.742 3751890.265 491.02
LOCATION L0014367      VOLUME      472758.035 3751894.658 490.71
LOCATION L0014368      VOLUME      472771.328 3751899.050 490.19
LOCATION L0014369      VOLUME      472784.621 3751903.442 489.81
LOCATION L0014370      VOLUME      472797.914 3751907.834 490.11
LOCATION L0014371      VOLUME      472811.208 3751912.226 490.35
LOCATION L0014372      VOLUME      472824.501 3751916.618 489.34
LOCATION L0014373      VOLUME      472837.794 3751921.010 488.58
LOCATION L0014374      VOLUME      472851.087 3751925.402 488.23
LOCATION L0014375      VOLUME      472864.380 3751929.795 488.04
LOCATION L0014376      VOLUME      472877.674 3751934.187 487.98
LOCATION L0014377      VOLUME      472890.967 3751938.579 488.00
LOCATION L0014378      VOLUME      472904.220 3751943.091 487.85
LOCATION L0014379      VOLUME      472917.463 3751947.632 487.41
LOCATION L0014380      VOLUME      472930.706 3751952.174 487.00
LOCATION L0014381      VOLUME      472943.949 3751956.715 487.00
LOCATION L0014382      VOLUME      472957.192 3751961.256 487.00
LOCATION L0014383      VOLUME      472970.435 3751965.798 486.64
LOCATION L0014384      VOLUME      472983.678 3751970.339 486.07
LOCATION L0014385      VOLUME      472996.920 3751974.880 485.55
LOCATION L0014386      VOLUME      473010.163 3751979.421 485.18
LOCATION L0014387      VOLUME      473023.233 3751984.440 484.93
LOCATION L0014388      VOLUME      473036.300 3751989.466 484.58
LOCATION L0014389      VOLUME      473049.429 3751994.306 484.08
LOCATION L0014390      VOLUME      473062.890 3751998.152 483.56
LOCATION L0014391      VOLUME      473076.351 3752001.998 483.11
LOCATION L0014392      VOLUME      473089.828 3752005.783 483.00
LOCATION L0014393      VOLUME      473103.522 3752008.691 483.00
LOCATION L0014394      VOLUME      473117.217 3752011.600 482.75
LOCATION L0014395      VOLUME      473131.112 3752013.279 482.28
LOCATION L0014396      VOLUME      473145.021 3752014.870 481.89
LOCATION L0014397      VOLUME      473158.930 3752016.462 481.57
LOCATION L0014398      VOLUME      473172.857 3752017.667 481.27
LOCATION L0014399      VOLUME      473186.853 3752017.317 481.13
LOCATION L0014400      VOLUME      473200.848 3752016.968 480.96
LOCATION L0014401      VOLUME      473214.844 3752016.619 480.49
LOCATION L0014402      VOLUME      473228.840 3752016.270 480.03
LOCATION L0014403      VOLUME      473242.814 3752016.793 480.00
LOCATION L0014404      VOLUME      473256.775 3752017.835 480.00
LOCATION L0014405      VOLUME      473270.736 3752018.877 479.63
LOCATION L0014406      VOLUME      473284.697 3752019.919 479.16
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    LOCATION L0014407        VOLUME       473298.658 3752020.961 478.70
    LOCATION L0014408        VOLUME       473312.619 3752022.003 478.23
    LOCATION L0014409        VOLUME       473326.522 3752023.621 477.77
    LOCATION L0014410        VOLUME       473340.410 3752025.392 477.31
    LOCATION L0014411        VOLUME       473354.298 3752027.162 476.84
    LOCATION L0014412        VOLUME       473368.185 3752028.932 476.38
    LOCATION L0014413        VOLUME       473382.073 3752030.703 476.00
    LOCATION L0014414        VOLUME       473395.960 3752032.473 476.00
    LOCATION L0014415        VOLUME       473409.848 3752034.243 475.99
    LOCATION L0014416        VOLUME       473423.721 3752036.095 475.68
    LOCATION L0014417        VOLUME       473437.383 3752039.154 475.46
** End of LINE VOLUME Source ID = SLINE21
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Bandit 25%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003054
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
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** 471065.506, 3751935.378, 516.91, 3.49, 6.51
** 471068.352, 3751974.263, 516.80, 3.49, 6.51
** 471094.908, 3752054.880, 515.07, 3.49, 6.51
** 471118.618, 3752119.373, 512.02, 3.49, 6.51
** 471126.206, 3752159.207, 513.03, 3.49, 6.51
** 471125.257, 3752255.947, 511.96, 3.49, 6.51
** 471422.115, 3752258.792, 518.41, 3.49, 6.51
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    LOCATION L0014418        VOLUME       471063.878 3751893.054 513.61
    LOCATION L0014419        VOLUME       471064.416 3751907.044 514.51
    LOCATION L0014420        VOLUME       471064.955 3751921.034 515.50
    LOCATION L0014421        VOLUME       471065.493 3751935.023 516.49
    LOCATION L0014422        VOLUME       471066.502 3751948.987 516.65
    LOCATION L0014423        VOLUME       471067.524 3751962.949 516.74
    LOCATION L0014424        VOLUME       471069.182 3751976.786 516.62
    LOCATION L0014425        VOLUME       471073.563 3751990.083 516.35
    LOCATION L0014426        VOLUME       471077.943 3752003.380 516.28
    LOCATION L0014427        VOLUME       471082.323 3752016.677 516.43
    LOCATION L0014428        VOLUME       471086.703 3752029.974 516.40
    LOCATION L0014429        VOLUME       471091.084 3752043.271 515.77
    LOCATION L0014430        VOLUME       471095.521 3752056.549 515.01
    LOCATION L0014431        VOLUME       471100.352 3752069.689 514.15
    LOCATION L0014432        VOLUME       471105.183 3752082.829 513.28
    LOCATION L0014433        VOLUME       471110.014 3752095.969 512.69
    LOCATION L0014434        VOLUME       471114.845 3752109.109 512.25
    LOCATION L0014435        VOLUME       471119.192 3752122.383 512.19
    LOCATION L0014436        VOLUME       471121.811 3752136.136 512.65
    LOCATION L0014437        VOLUME       471124.431 3752149.889 512.89
    LOCATION L0014438        VOLUME       471126.161 3752163.721 512.43
    LOCATION L0014439        VOLUME       471126.024 3752177.720 511.99
    LOCATION L0014440        VOLUME       471125.887 3752191.720 511.88
    LOCATION L0014441        VOLUME       471125.750 3752205.719 511.75
    LOCATION L0014442        VOLUME       471125.612 3752219.718 511.74
    LOCATION L0014443        VOLUME       471125.475 3752233.717 511.73
    LOCATION L0014444        VOLUME       471125.338 3752247.717 511.77
    LOCATION L0014445        VOLUME       471131.027 3752256.002 512.05
    LOCATION L0014446        VOLUME       471145.026 3752256.136 512.52
    LOCATION L0014447        VOLUME       471159.025 3752256.270 512.98
    LOCATION L0014448        VOLUME       471173.025 3752256.405 513.76
    LOCATION L0014449        VOLUME       471187.024 3752256.539 514.53
    LOCATION L0014450        VOLUME       471201.023 3752256.673 515.05
    LOCATION L0014451        VOLUME       471215.023 3752256.807 515.51
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   LOCATION L0014453        VOLUME      471243.022 3752257.075 514.86
   LOCATION L0014454        VOLUME      471257.021 3752257.210 514.71
   LOCATION L0014455        VOLUME      471271.020 3752257.344 514.84
   LOCATION L0014456        VOLUME      471285.020 3752257.478 515.04
   LOCATION L0014457        VOLUME      471299.019 3752257.612 515.36
   LOCATION L0014458        VOLUME      471313.018 3752257.746 515.79
   LOCATION L0014459        VOLUME      471327.018 3752257.880 516.58
   LOCATION L0014460        VOLUME      471341.017 3752258.015 517.30
   LOCATION L0014461        VOLUME      471355.016 3752258.149 517.43
   LOCATION L0014462        VOLUME      471369.016 3752258.283 517.55
   LOCATION L0014463        VOLUME      471383.015 3752258.417 518.00
   LOCATION L0014464        VOLUME      471397.014 3752258.551 518.45
   LOCATION L0014465        VOLUME      471411.014 3752258.686 518.63
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Bandit 30% N
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003944
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471421.774, 3752257.642, 518.48, 3.49, 6.51
** 471780.295, 3752259.839, 519.20, 3.49, 6.51
** 471783.151, 3751890.773, 534.84, 3.49, 6.51
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   LOCATION L0014467        VOLUME      471442.774 3752257.771 519.02
   LOCATION L0014468        VOLUME      471456.773 3752257.856 519.14
   LOCATION L0014469        VOLUME      471470.773 3752257.942 519.53
   LOCATION L0014470        VOLUME      471484.773 3752258.028 519.99
   LOCATION L0014471        VOLUME      471498.773 3752258.114 520.80
   LOCATION L0014472        VOLUME      471512.772 3752258.200 521.79
   LOCATION L0014473        VOLUME      471526.772 3752258.285 522.52
   LOCATION L0014474        VOLUME      471540.772 3752258.371 522.98
   LOCATION L0014475        VOLUME      471554.772 3752258.457 522.80
   LOCATION L0014476        VOLUME      471568.771 3752258.543 521.52
   LOCATION L0014477        VOLUME      471582.771 3752258.628 520.38
   LOCATION L0014478        VOLUME      471596.771 3752258.714 519.68
   LOCATION L0014479        VOLUME      471610.770 3752258.800 519.12
   LOCATION L0014480        VOLUME      471624.770 3752258.886 519.92
   LOCATION L0014481        VOLUME      471638.770 3752258.972 520.72
   LOCATION L0014482        VOLUME      471652.770 3752259.057 521.97
   LOCATION L0014483        VOLUME      471666.769 3752259.143 523.24
   LOCATION L0014484        VOLUME      471680.769 3752259.229 523.21
   LOCATION L0014485        VOLUME      471694.769 3752259.315 522.85
   LOCATION L0014486        VOLUME      471708.769 3752259.401 522.58
   LOCATION L0014487        VOLUME      471722.768 3752259.486 522.35
   LOCATION L0014488        VOLUME      471736.768 3752259.572 521.94
   LOCATION L0014489        VOLUME      471750.768 3752259.658 521.36
   LOCATION L0014490        VOLUME      471764.768 3752259.744 520.65
   LOCATION L0014491        VOLUME      471778.767 3752259.829 519.72
   LOCATION L0014492        VOLUME      471780.392 3752247.367 519.61
   LOCATION L0014493        VOLUME      471780.500 3752233.368 519.53
   LOCATION L0014494        VOLUME      471780.609 3752219.368 519.19
   LOCATION L0014495        VOLUME      471780.717 3752205.369 518.87
   LOCATION L0014496        VOLUME      471780.825 3752191.369 518.73
   LOCATION L0014497        VOLUME      471780.934 3752177.369 518.58
   LOCATION L0014498        VOLUME      471781.042 3752163.370 518.69
   LOCATION L0014499        VOLUME      471781.150 3752149.370 518.82
   LOCATION L0014500        VOLUME      471781.259 3752135.371 519.48
   LOCATION L0014501        VOLUME      471781.367 3752121.371 520.27
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    LOCATION L0014502      VOLUME      471781.475 3752107.371 521.61
    LOCATION L0014503      VOLUME      471781.584 3752093.372 523.22
    LOCATION L0014504      VOLUME      471781.692 3752079.372 524.06
    LOCATION L0014505      VOLUME      471781.800 3752065.373 524.18
    LOCATION L0014506      VOLUME      471781.909 3752051.373 524.43
    LOCATION L0014507      VOLUME      471782.017 3752037.374 524.89
    LOCATION L0014508      VOLUME      471782.125 3752023.374 525.57
    LOCATION L0014509      VOLUME      471782.234 3752009.374 526.97
    LOCATION L0014510      VOLUME      471782.342 3751995.375 528.28
    LOCATION L0014511      VOLUME      471782.450 3751981.375 528.75
    LOCATION L0014512      VOLUME      471782.559 3751967.376 529.21
    LOCATION L0014513      VOLUME      471782.667 3751953.376 529.67
    LOCATION L0014514      VOLUME      471782.775 3751939.377 530.14
    LOCATION L0014515      VOLUME      471782.884 3751925.377 531.56
    LOCATION L0014516      VOLUME      471782.992 3751911.377 533.22
    LOCATION L0014517      VOLUME      471783.100 3751897.378 534.47
** End of LINE VOLUME Source ID = SLINE23
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Bandit 15%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002017
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471063.923, 3751884.464, 512.94, 3.49, 6.51
** 471067.349, 3751513.030, 522.92, 3.49, 6.51
** 471440.154, 3751515.771, 534.93, 3.49, 6.51
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    LOCATION L0014518      VOLUME      471063.987 3751877.464 512.68
    LOCATION L0014519      VOLUME      471064.116 3751863.465 512.36
    LOCATION L0014520      VOLUME      471064.246 3751849.466 512.06
    LOCATION L0014521      VOLUME      471064.375 3751835.466 512.06
    LOCATION L0014522      VOLUME      471064.504 3751821.467 512.14
    LOCATION L0014523      VOLUME      471064.633 3751807.467 512.47
    LOCATION L0014524      VOLUME      471064.762 3751793.468 512.93
    LOCATION L0014525      VOLUME      471064.891 3751779.469 513.84
    LOCATION L0014526      VOLUME      471065.021 3751765.469 515.16
    LOCATION L0014527      VOLUME      471065.150 3751751.470 516.49
    LOCATION L0014528      VOLUME      471065.279 3751737.470 517.83
    LOCATION L0014529      VOLUME      471065.408 3751723.471 519.06
    LOCATION L0014530      VOLUME      471065.537 3751709.472 519.94
    LOCATION L0014531      VOLUME      471065.666 3751695.472 520.86
    LOCATION L0014532      VOLUME      471065.795 3751681.473 522.27
    LOCATION L0014533      VOLUME      471065.925 3751667.473 523.68
    LOCATION L0014534      VOLUME      471066.054 3751653.474 524.21
    LOCATION L0014535      VOLUME      471066.183 3751639.475 524.68
    LOCATION L0014536      VOLUME      471066.312 3751625.475 524.41
    LOCATION L0014537      VOLUME      471066.441 3751611.476 523.95
    LOCATION L0014538      VOLUME      471066.570 3751597.476 523.80
    LOCATION L0014539      VOLUME      471066.699 3751583.477 523.81
    LOCATION L0014540      VOLUME      471066.829 3751569.478 523.84
    LOCATION L0014541      VOLUME      471066.958 3751555.478 523.89
    LOCATION L0014542      VOLUME      471067.087 3751541.479 523.73
    LOCATION L0014543      VOLUME      471067.216 3751527.479 523.23
    LOCATION L0014544      VOLUME      471067.345 3751513.480 522.64
    LOCATION L0014545      VOLUME      471080.899 3751513.130 522.85
    LOCATION L0014546      VOLUME      471094.899 3751513.233 522.96
    LOCATION L0014547      VOLUME      471108.898 3751513.336 523.31
    LOCATION L0014548      VOLUME      471122.898 3751513.439 523.78
    LOCATION L0014549      VOLUME      471136.898 3751513.542 524.25
    LOCATION L0014550      VOLUME      471150.897 3751513.645 524.71
    LOCATION L0014551      VOLUME      471164.897 3751513.748 525.34
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    LOCATION L0014552      VOLUME      471178.897 3751513.850 526.23
    LOCATION L0014553      VOLUME      471192.896 3751513.953 527.03
    LOCATION L0014554      VOLUME      471206.896 3751514.056 527.54
    LOCATION L0014555      VOLUME      471220.895 3751514.159 528.05
    LOCATION L0014556      VOLUME      471234.895 3751514.262 528.51
    LOCATION L0014557      VOLUME      471248.895 3751514.365 528.98
    LOCATION L0014558      VOLUME      471262.894 3751514.468 529.45
    LOCATION L0014559      VOLUME      471276.894 3751514.571 529.91
    LOCATION L0014560      VOLUME      471290.894 3751514.674 530.02
    LOCATION L0014561      VOLUME      471304.893 3751514.777 530.05
    LOCATION L0014562      VOLUME      471318.893 3751514.880 530.39
    LOCATION L0014563      VOLUME      471332.892 3751514.983 530.88
    LOCATION L0014564      VOLUME      471346.892 3751515.086 532.06
    LOCATION L0014565      VOLUME      471360.892 3751515.189 533.87
    LOCATION L0014566      VOLUME      471374.891 3751515.292 535.19
    LOCATION L0014567      VOLUME      471388.891 3751515.395 535.67
    LOCATION L0014568      VOLUME      471402.890 3751515.497 535.93
    LOCATION L0014569      VOLUME      471416.890 3751515.600 535.46
    LOCATION L0014570      VOLUME      471430.890 3751515.703 534.99
** End of LINE VOLUME Source ID = SLINE24
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Bandit 30% S
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00003894
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471437.937, 3751517.317, 534.98, 3.49, 6.51
** 471786.513, 3751519.793, 535.03, 3.49, 6.51
** 471783.047, 3751889.660, 536.07, 3.49, 6.51
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    LOCATION L0014571      VOLUME      471444.937 3751517.367 534.46
    LOCATION L0014572      VOLUME      471458.936 3751517.466 533.99
    LOCATION L0014573      VOLUME      471472.936 3751517.566 533.52
    LOCATION L0014574      VOLUME      471486.936 3751517.665 533.05
    LOCATION L0014575      VOLUME      471500.935 3751517.765 532.23
    LOCATION L0014576      VOLUME      471514.935 3751517.864 531.34
    LOCATION L0014577      VOLUME      471528.935 3751517.964 530.72
    LOCATION L0014578      VOLUME      471542.934 3751518.063 530.23
    LOCATION L0014579      VOLUME      471556.934 3751518.162 530.00
    LOCATION L0014580      VOLUME      471570.934 3751518.262 530.00
    LOCATION L0014581      VOLUME      471584.933 3751518.361 530.00
    LOCATION L0014582      VOLUME      471598.933 3751518.461 530.00
    LOCATION L0014583      VOLUME      471612.932 3751518.560 529.99
    LOCATION L0014584      VOLUME      471626.932 3751518.660 529.96
    LOCATION L0014585      VOLUME      471640.932 3751518.759 529.89
    LOCATION L0014586      VOLUME      471654.931 3751518.858 529.45
    LOCATION L0014587      VOLUME      471668.931 3751518.958 529.02
    LOCATION L0014588      VOLUME      471682.931 3751519.057 529.48
    LOCATION L0014589      VOLUME      471696.930 3751519.157 529.99
    LOCATION L0014590      VOLUME      471710.930 3751519.256 530.81
    LOCATION L0014591      VOLUME      471724.930 3751519.356 531.71
    LOCATION L0014592      VOLUME      471738.929 3751519.455 532.62
    LOCATION L0014593      VOLUME      471752.929 3751519.554 533.56
    LOCATION L0014594      VOLUME      471766.929 3751519.654 534.25
    LOCATION L0014595      VOLUME      471780.928 3751519.753 534.71
    LOCATION L0014596      VOLUME      471786.434 3751528.208 534.90
    LOCATION L0014597      VOLUME      471786.303 3751542.207 534.89
    LOCATION L0014598      VOLUME      471786.171 3751556.207 535.49
    LOCATION L0014599      VOLUME      471786.040 3751570.206 536.36
    LOCATION L0014600      VOLUME      471785.909 3751584.206 536.76
    LOCATION L0014601      VOLUME      471785.778 3751598.205 536.75
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     LOCATION L0014602       VOLUME      471785.647 3751612.204 536.58
     LOCATION L0014603       VOLUME      471785.515 3751626.204 536.17
     LOCATION L0014604       VOLUME      471785.384 3751640.203 535.98
     LOCATION L0014605       VOLUME      471785.253 3751654.202 536.44
     LOCATION L0014606       VOLUME      471785.122 3751668.202 536.85
     LOCATION L0014607       VOLUME      471784.991 3751682.201 536.85
     LOCATION L0014608       VOLUME      471784.860 3751696.201 536.84
     LOCATION L0014609       VOLUME      471784.728 3751710.200 536.84
     LOCATION L0014610       VOLUME      471784.597 3751724.199 536.83
     LOCATION L0014611       VOLUME      471784.466 3751738.199 536.83
     LOCATION L0014612       VOLUME      471784.335 3751752.198 536.83
     LOCATION L0014613       VOLUME      471784.204 3751766.198 537.14
     LOCATION L0014614       VOLUME      471784.072 3751780.197 537.60
     LOCATION L0014615       VOLUME      471783.941 3751794.196 537.61
     LOCATION L0014616       VOLUME      471783.810 3751808.196 537.23
     LOCATION L0014617       VOLUME      471783.679 3751822.195 537.00
     LOCATION L0014618       VOLUME      471783.548 3751836.194 537.00
     LOCATION L0014619       VOLUME      471783.417 3751850.194 536.88
     LOCATION L0014620       VOLUME      471783.285 3751864.193 536.41
     LOCATION L0014621       VOLUME      471783.154 3751878.193 535.89
** End of LINE VOLUME Source ID = SLINE25
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Sycamore 5%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00002617
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 26
** 473443.376, 3752040.242, 475.43, 3.49, 6.51
** 473435.363, 3752092.459, 475.89, 3.49, 6.51
** 473416.493, 3752154.757, 474.92, 3.49, 6.51
** 473397.105, 3752189.654, 475.57, 3.49, 6.51
** 473381.337, 3752217.055, 475.90, 3.49, 6.51
** 473282.332, 3752345.787, 474.94, 3.49, 6.51
** 473198.579, 3752453.581, 475.01, 3.49, 6.51
** 473110.172, 3752568.612, 472.99, 3.49, 6.51
** 473090.526, 3752597.823, 472.00, 3.49, 6.51
** 473049.425, 3752668.651, 471.89, 3.49, 6.51
** 473026.936, 3752734.827, 471.31, 3.49, 6.51
** 473012.460, 3752796.349, 470.20, 3.49, 6.51
** 473009.875, 3752870.797, 469.09, 3.49, 6.51
** 473006.948, 3753091.235, 470.00, 3.49, 6.51
** 472997.352, 3753306.457, 459.39, 3.49, 6.51
** 472980.902, 3753379.797, 457.00, 3.49, 6.51
** 472928.810, 3753461.362, 461.74, 3.49, 6.51
** 472866.437, 3753519.623, 463.02, 3.49, 6.51
** 472743.061, 3753608.042, 464.13, 3.49, 6.51
** 472686.857, 3753660.819, 459.91, 3.49, 6.51
** 472651.215, 3753719.080, 462.62, 3.49, 6.51
** 472628.596, 3753778.026, 464.00, 3.49, 6.51
** 472621.056, 3753832.175, 463.67, 3.49, 6.51
** 472617.629, 3753969.944, 463.33, 3.49, 6.51
** 472599.123, 3754362.690, 463.99, 3.49, 6.51
** 472586.785, 3754662.219, 466.00, 3.49, 6.51
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     LOCATION L0014622       VOLUME      473442.315 3752047.161 475.62
     LOCATION L0014623       VOLUME      473440.191 3752060.999 475.98
     LOCATION L0014624       VOLUME      473438.067 3752074.837 475.97
     LOCATION L0014625       VOLUME      473435.944 3752088.675 475.82
     LOCATION L0014626       VOLUME      473432.414 3752102.194 475.36
     LOCATION L0014627       VOLUME      473428.356 3752115.593 475.02
     LOCATION L0014628       VOLUME      473424.297 3752128.992 474.80
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LOCATION L0014629      VOLUME      473420.238 3752142.390 474.70
LOCATION L0014630      VOLUME      473415.969 3752155.700 474.79
LOCATION L0014631      VOLUME      473409.170 3752167.938 475.02
LOCATION L0014632      VOLUME      473402.371 3752180.176 475.24
LOCATION L0014633      VOLUME      473395.530 3752192.391 475.47
LOCATION L0014634      VOLUME      473388.547 3752204.525 475.70
LOCATION L0014635      VOLUME      473381.564 3752216.659 475.60
LOCATION L0014636      VOLUME      473373.080 3752227.791 475.45
LOCATION L0014637      VOLUME      473364.545 3752238.888 475.54
LOCATION L0014638      VOLUME      473356.010 3752249.986 475.88
LOCATION L0014639      VOLUME      473347.476 3752261.083 476.01
LOCATION L0014640      VOLUME      473338.941 3752272.181 476.00
LOCATION L0014641      VOLUME      473330.406 3752283.278 476.00
LOCATION L0014642      VOLUME      473321.871 3752294.376 476.00
LOCATION L0014643      VOLUME      473313.336 3752305.474 475.70
LOCATION L0014644      VOLUME      473304.801 3752316.571 475.33
LOCATION L0014645      VOLUME      473296.266 3752327.669 474.99
LOCATION L0014646      VOLUME      473287.731 3752338.766 475.04
LOCATION L0014647      VOLUME      473279.176 3752349.848 475.08
LOCATION L0014648      VOLUME      473270.587 3752360.903 474.86
LOCATION L0014649      VOLUME      473261.997 3752371.959 474.49
LOCATION L0014650      VOLUME      473253.407 3752383.014 474.30
LOCATION L0014651      VOLUME      473244.818 3752394.069 474.25
LOCATION L0014652      VOLUME      473236.228 3752405.124 474.16
LOCATION L0014653      VOLUME      473227.638 3752416.180 474.08
LOCATION L0014654      VOLUME      473219.049 3752427.235 474.35
LOCATION L0014655      VOLUME      473210.459 3752438.290 474.64
LOCATION L0014656      VOLUME      473201.869 3752449.345 474.92
LOCATION L0014657      VOLUME      473193.316 3752460.428 475.21
LOCATION L0014658      VOLUME      473184.785 3752471.529 475.49
LOCATION L0014659      VOLUME      473176.254 3752482.629 475.58
LOCATION L0014660      VOLUME      473167.723 3752493.730 475.43
LOCATION L0014661      VOLUME      473159.191 3752504.830 475.06
LOCATION L0014662      VOLUME      473150.660 3752515.931 474.69
LOCATION L0014663      VOLUME      473142.129 3752527.031 474.32
LOCATION L0014664      VOLUME      473133.598 3752538.131 473.76
LOCATION L0014665      VOLUME      473125.067 3752549.232 473.30
LOCATION L0014666      VOLUME      473116.536 3752560.332 473.05
LOCATION L0014667      VOLUME      473108.187 3752571.564 472.79
LOCATION L0014668      VOLUME      473100.374 3752583.181 472.31
LOCATION L0014669      VOLUME      473092.561 3752594.798 472.03
LOCATION L0014670      VOLUME      473085.329 3752606.779 472.00
LOCATION L0014671      VOLUME      473078.302 3752618.888 472.00
LOCATION L0014672      VOLUME      473071.276 3752630.997 471.89
LOCATION L0014673      VOLUME      473064.249 3752643.105 471.73
LOCATION L0014674      VOLUME      473057.222 3752655.214 471.76
LOCATION L0014675      VOLUME      473050.196 3752667.323 471.98
LOCATION L0014676      VOLUME      473045.414 3752680.453 472.00
LOCATION L0014677      VOLUME      473040.910 3752693.708 471.83
LOCATION L0014678      VOLUME      473036.405 3752706.964 471.62
LOCATION L0014679      VOLUME      473031.900 3752720.219 471.52
LOCATION L0014680      VOLUME      473027.395 3752733.475 471.32
LOCATION L0014681      VOLUME      473024.056 3752747.065 471.00
LOCATION L0014682      VOLUME      473020.850 3752760.692 470.98
LOCATION L0014683      VOLUME      473017.643 3752774.320 471.01
LOCATION L0014684      VOLUME      473014.437 3752787.948 470.62
LOCATION L0014685      VOLUME      473012.273 3752801.715 470.16
LOCATION L0014686      VOLUME      473011.788 3752815.707 470.00
LOCATION L0014687      VOLUME      473011.302 3752829.699 470.00
LOCATION L0014688      VOLUME      473010.816 3752843.690 469.76
LOCATION L0014689      VOLUME      473010.330 3752857.682 469.30
LOCATION L0014690      VOLUME      473009.863 3752871.674 469.00
LOCATION L0014691      VOLUME      473009.677 3752885.673 469.00
LOCATION L0014692      VOLUME      473009.491 3752899.671 469.03
LOCATION L0014693      VOLUME      473009.306 3752913.670 469.20
LOCATION L0014694      VOLUME      473009.120 3752927.669 469.34
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LOCATION L0014695     VOLUME     473008.934 3752941.668 469.18
LOCATION L0014696     VOLUME     473008.748 3752955.666 469.01
LOCATION L0014697     VOLUME     473008.562 3752969.665 469.00
LOCATION L0014698     VOLUME     473008.376 3752983.664 469.00
LOCATION L0014699     VOLUME     473008.190 3752997.663 469.14
LOCATION L0014700     VOLUME     473008.005 3753011.661 469.32
LOCATION L0014701     VOLUME     473007.819 3753025.660 469.39
LOCATION L0014702     VOLUME     473007.633 3753039.659 469.40
LOCATION L0014703     VOLUME     473007.447 3753053.658 469.41
LOCATION L0014704     VOLUME     473007.261 3753067.656 469.41
LOCATION L0014705     VOLUME     473007.075 3753081.655 469.52
LOCATION L0014706     VOLUME     473006.751 3753095.650 469.79
LOCATION L0014707     VOLUME     473006.128 3753109.636 469.94
LOCATION L0014708     VOLUME     473005.504 3753123.622 469.70
LOCATION L0014709     VOLUME     473004.881 3753137.608 469.48
LOCATION L0014710     VOLUME     473004.257 3753151.594 469.26
LOCATION L0014711     VOLUME     473003.633 3753165.581 469.02
LOCATION L0014712     VOLUME     473003.010 3753179.567 468.57
LOCATION L0014713     VOLUME     473002.386 3753193.553 468.10
LOCATION L0014714     VOLUME     473001.763 3753207.539 466.76
LOCATION L0014715     VOLUME     473001.139 3753221.525 465.19
LOCATION L0014716     VOLUME     473000.515 3753235.511 464.15
LOCATION L0014717     VOLUME     472999.892 3753249.497 463.39
LOCATION L0014718     VOLUME     472999.268 3753263.483 462.54
LOCATION L0014719     VOLUME     472998.645 3753277.469 461.61
LOCATION L0014720     VOLUME     472998.021 3753291.455 460.68
LOCATION L0014721     VOLUME     472997.398 3753305.442 459.74
LOCATION L0014722     VOLUME     472994.511 3753319.126 458.85
LOCATION L0014723     VOLUME     472991.447 3753332.786 457.95
LOCATION L0014724     VOLUME     472988.383 3753346.447 457.01
LOCATION L0014725     VOLUME     472985.318 3753360.108 457.00
LOCATION L0014726     VOLUME     472982.254 3753373.768 457.00
LOCATION L0014727     VOLUME     472976.692 3753386.389 457.33
LOCATION L0014728     VOLUME     472969.157 3753398.188 457.72
LOCATION L0014729     VOLUME     472961.621 3753409.987 457.89
LOCATION L0014730     VOLUME     472954.086 3753421.786 457.31
LOCATION L0014731     VOLUME     472946.550 3753433.585 456.66
LOCATION L0014732     VOLUME     472939.015 3753445.384 457.52
LOCATION L0014733     VOLUME     472931.479 3753457.183 459.92
LOCATION L0014734     VOLUME     472922.203 3753467.533 462.82
LOCATION L0014735     VOLUME     472911.972 3753477.090 464.40
LOCATION L0014736     VOLUME     472901.741 3753486.646 465.55
LOCATION L0014737     VOLUME     472891.510 3753496.203 465.46
LOCATION L0014738     VOLUME     472881.279 3753505.759 464.23
LOCATION L0014739     VOLUME     472871.048 3753515.316 463.41
LOCATION L0014740     VOLUME     472860.186 3753524.103 462.79
LOCATION L0014741     VOLUME     472848.807 3753532.258 462.44
LOCATION L0014742     VOLUME     472837.427 3753540.413 462.49
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** LINE VOLUME Source ID = SLINE27
** DESCRSRC Meridian 10%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.00006637
** Vertical Dimension = 6.99
** SZINIT = 3.25
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LOCATION L0015027      VOLUME      474439.444 3749761.886 473.67
LOCATION L0015028      VOLUME      474453.444 3749761.925 473.21
LOCATION L0015029      VOLUME      474467.443 3749761.964 473.00
LOCATION L0015030      VOLUME      474481.443 3749762.003 473.00
LOCATION L0015031      VOLUME      474495.443 3749762.042 472.81
LOCATION L0015032      VOLUME      474509.443 3749762.081 472.34
LOCATION L0015033      VOLUME      474523.443 3749762.120 471.87
LOCATION L0015034      VOLUME      474537.443 3749762.159 471.41
LOCATION L0015035      VOLUME      474551.443 3749762.198 470.94
LOCATION L0015036      VOLUME      474565.443 3749762.237 470.47
LOCATION L0015037      VOLUME      474579.443 3749762.276 470.01
LOCATION L0015038      VOLUME      474593.443 3749762.315 470.00
LOCATION L0015039      VOLUME      474607.443 3749762.354 470.00
LOCATION L0015040      VOLUME      474621.443 3749762.393 469.81
LOCATION L0015041      VOLUME      474635.443 3749762.432 469.59
LOCATION L0015042      VOLUME      474649.443 3749762.471 469.36
LOCATION L0015043      VOLUME      474663.443 3749762.510 469.11
LOCATION L0015044      VOLUME      474677.443 3749762.549 469.00
LOCATION L0015045      VOLUME      474691.441 3749762.524 469.00
LOCATION L0015046      VOLUME      474705.415 3749761.681 469.00
LOCATION L0015047      VOLUME      474719.390 3749760.837 469.00
LOCATION L0015048      VOLUME      474733.364 3749759.994 469.00
LOCATION L0015049      VOLUME      474747.339 3749759.151 469.00
LOCATION L0015050      VOLUME      474761.314 3749758.308 469.00
LOCATION L0015051      VOLUME      474775.288 3749757.464 469.00
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    LOCATION L0015052      VOLUME      474789.263 3749756.621 469.00
    LOCATION L0015053      VOLUME      474803.237 3749755.778 468.86
    LOCATION L0015054      VOLUME      474817.212 3749754.934 468.75
    LOCATION L0015055      VOLUME      474831.187 3749754.091 468.46
    LOCATION L0015056      VOLUME      474845.161 3749753.248 468.12
    LOCATION L0015057      VOLUME      474859.136 3749752.405 468.00
    LOCATION L0015058      VOLUME      474873.110 3749751.561 468.00
    LOCATION L0015059      VOLUME      474887.037 3749750.176 468.00
    LOCATION L0015060      VOLUME      474900.941 3749748.540 468.00
    LOCATION L0015061      VOLUME      474914.845 3749746.905 468.00
    LOCATION L0015062      VOLUME      474928.749 3749745.269 468.00
    LOCATION L0015063      VOLUME      474942.653 3749743.633 467.91
    LOCATION L0015064      VOLUME      474956.557 3749741.997 467.52
    LOCATION L0015065      VOLUME      474970.461 3749740.362 467.20
    LOCATION L0015066      VOLUME      474984.365 3749738.726 467.13
    LOCATION L0015067      VOLUME      474998.270 3749737.090 467.02
    LOCATION L0015068      VOLUME      475012.104 3749734.960 467.00
    LOCATION L0015069      VOLUME      475025.923 3749732.713 467.00
    LOCATION L0015070      VOLUME      475039.741 3749730.466 467.00
    LOCATION L0015071      VOLUME      475053.560 3749728.219 467.00
    LOCATION L0015072      VOLUME      475067.378 3749725.972 467.00
    LOCATION L0015073      VOLUME      475081.197 3749723.725 467.00
    LOCATION L0015074      VOLUME      475095.015 3749721.478 467.00
    LOCATION L0015075      VOLUME      475107.097 3749715.237 467.00
    LOCATION L0015076      VOLUME      475118.163 3749706.661 467.00
    LOCATION L0015077      VOLUME      475129.229 3749698.085 467.00
    LOCATION L0015078      VOLUME      475140.294 3749689.509 467.00
    LOCATION L0015079      VOLUME      475151.360 3749680.933 466.94
    LOCATION L0015080      VOLUME      475162.426 3749672.357 466.58
    LOCATION L0015081      VOLUME      475173.492 3749663.781 466.21
    LOCATION L0015082      VOLUME      475184.558 3749655.205 466.00
    LOCATION L0015083      VOLUME      475195.623 3749646.629 466.00
    LOCATION L0015084      VOLUME      475200.265 3749633.718 466.00
    LOCATION L0015085      VOLUME      475204.078 3749620.247 466.00
    LOCATION L0015086      VOLUME      475207.890 3749606.776 466.00
    LOCATION L0015087      VOLUME      475211.703 3749593.305 466.00
    LOCATION L0015088      VOLUME      475215.515 3749579.834 466.00
    LOCATION L0015089      VOLUME      475219.328 3749566.364 466.00
    LOCATION L0015090      VOLUME      475221.082 3749552.607 466.00
** End of LINE VOLUME Source ID = SLINE27
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Cactus 85%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 0.0001293
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 8
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** 473530.447, 3752049.370, 474.12, 3.49, 6.51
** 473652.544, 3752059.474, 472.98, 3.49, 6.51
** 473767.062, 3752060.316, 473.00, 3.49, 6.51
** 473852.950, 3752070.842, 472.79, 3.49, 6.51
** 473920.735, 3752089.367, 471.99, 3.49, 6.51
** 474178.400, 3752128.943, 470.00, 3.49, 6.51
** 474276.919, 3752145.363, 471.00, 3.49, 6.51
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    LOCATION L0015092      VOLUME      473464.199 3752042.969 475.10
    LOCATION L0015093      VOLUME      473478.134 3752044.315 475.00
    LOCATION L0015094      VOLUME      473492.069 3752045.662 475.00
    LOCATION L0015095      VOLUME      473506.004 3752047.008 474.86
    LOCATION L0015096      VOLUME      473519.939 3752048.355 474.51
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       LOCATION L0015097      VOLUME      473533.878 3752049.654 474.20
       LOCATION L0015098      VOLUME      473547.831 3752050.809 474.08
       LOCATION L0015099      VOLUME      473561.783 3752051.963 473.93
       LOCATION L0015100      VOLUME      473575.735 3752053.118 473.46
       LOCATION L0015101      VOLUME      473589.688 3752054.273 473.00
       LOCATION L0015102      VOLUME      473603.640 3752055.427 472.55
       LOCATION L0015103      VOLUME      473617.592 3752056.582 472.07
       LOCATION L0015104      VOLUME      473631.544 3752057.737 472.38
       LOCATION L0015105      VOLUME      473645.497 3752058.891 472.80
       LOCATION L0015106      VOLUME      473659.473 3752059.525 472.93
       LOCATION L0015107      VOLUME      473673.472 3752059.628 472.98
       LOCATION L0015108      VOLUME      473687.472 3752059.731 473.00
       LOCATION L0015109      VOLUME      473701.471 3752059.834 473.00
       LOCATION L0015110      VOLUME      473715.471 3752059.937 472.98
       LOCATION L0015111      VOLUME      473729.471 3752060.040 472.92
       LOCATION L0015112      VOLUME      473743.470 3752060.143 472.88
       LOCATION L0015113      VOLUME      473757.470 3752060.246 472.88
       LOCATION L0015114      VOLUME      473771.437 3752060.853 472.86
       LOCATION L0015115      VOLUME      473785.333 3752062.556 472.80
       LOCATION L0015116      VOLUME      473799.229 3752064.259 472.74
       LOCATION L0015117      VOLUME      473813.125 3752065.961 472.69
       LOCATION L0015118      VOLUME      473827.021 3752067.664 472.63
       LOCATION L0015119      VOLUME      473840.917 3752069.367 472.73
       LOCATION L0015120      VOLUME      473854.761 3752071.337 472.92
       LOCATION L0015121      VOLUME      473868.265 3752075.028 472.82
       LOCATION L0015122      VOLUME      473881.770 3752078.718 472.46
       LOCATION L0015123      VOLUME      473895.275 3752082.409 472.11
       LOCATION L0015124      VOLUME      473908.780 3752086.100 472.01
       LOCATION L0015125      VOLUME      473922.323 3752089.611 471.82
       LOCATION L0015126      VOLUME      473936.160 3752091.736 471.37
       LOCATION L0015127      VOLUME      473949.998 3752093.862 471.00
       LOCATION L0015128      VOLUME      473963.836 3752095.987 470.85
       LOCATION L0015129      VOLUME      473977.674 3752098.112 470.64
       LOCATION L0015130      VOLUME      473991.511 3752100.238 470.33
       LOCATION L0015131      VOLUME      474005.349 3752102.363 470.07
       LOCATION L0015132      VOLUME      474019.187 3752104.489 470.00
       LOCATION L0015133      VOLUME      474033.024 3752106.614 470.00
       LOCATION L0015134      VOLUME      474046.862 3752108.740 470.00
       LOCATION L0015135      VOLUME      474060.700 3752110.865 470.00
       LOCATION L0015136      VOLUME      474074.538 3752112.990 470.00
       LOCATION L0015137      VOLUME      474088.375 3752115.116 470.00
       LOCATION L0015138      VOLUME      474102.213 3752117.241 470.00
       LOCATION L0015139      VOLUME      474116.051 3752119.367 470.00
       LOCATION L0015140      VOLUME      474129.889 3752121.492 470.00
       LOCATION L0015141      VOLUME      474143.726 3752123.617 470.00
       LOCATION L0015142      VOLUME      474157.564 3752125.743 470.00
       LOCATION L0015143      VOLUME      474171.402 3752127.868 470.00
       LOCATION L0015144      VOLUME      474185.226 3752130.081 470.00
       LOCATION L0015145      VOLUME      474199.035 3752132.382 470.00
       LOCATION L0015146      VOLUME      474212.845 3752134.684 470.00
       LOCATION L0015147      VOLUME      474226.654 3752136.985 470.00
       LOCATION L0015148      VOLUME      474240.464 3752139.287 470.00
       LOCATION L0015149      VOLUME      474254.273 3752141.589 470.15
       LOCATION L0015150      VOLUME      474268.083 3752143.890 470.61
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Cactus 3%
** PREFIX
** Length of Side = 14.00
** Configuration = Adjacent
** Emission Rate = 8.619E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
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** 474668.048, 3752220.305, 472.00, 3.49, 6.51
** 474751.832, 3752224.936, 472.00, 3.49, 6.51
** 474953.501, 3752222.831, 472.06, 3.49, 6.51
** 475858.533, 3752226.376, 472.00, 3.49, 6.51
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   LOCATION L0015152      VOLUME      474296.267 3752148.963 471.47
   LOCATION L0015153      VOLUME      474310.008 3752151.644 471.84
   LOCATION L0015154      VOLUME      474323.749 3752154.325 472.09
   LOCATION L0015155      VOLUME      474337.490 3752157.005 472.26
   LOCATION L0015156      VOLUME      474351.231 3752159.686 472.13
   LOCATION L0015157      VOLUME      474364.972 3752162.367 471.95
   LOCATION L0015158      VOLUME      474378.713 3752165.048 471.95
   LOCATION L0015159      VOLUME      474392.454 3752167.728 472.13
   LOCATION L0015160      VOLUME      474406.195 3752170.409 472.21
   LOCATION L0015161      VOLUME      474419.936 3752173.090 472.12
   LOCATION L0015162      VOLUME      474433.677 3752175.771 472.02
   LOCATION L0015163      VOLUME      474447.418 3752178.451 472.00
   LOCATION L0015164      VOLUME      474461.159 3752181.132 472.00
   LOCATION L0015165      VOLUME      474474.900 3752183.813 472.00
   LOCATION L0015166      VOLUME      474488.641 3752186.494 472.00
   LOCATION L0015167      VOLUME      474502.382 3752189.175 472.00
   LOCATION L0015168      VOLUME      474516.122 3752191.855 472.00
   LOCATION L0015169      VOLUME      474529.863 3752194.536 472.00
   LOCATION L0015170      VOLUME      474543.604 3752197.217 472.00
   LOCATION L0015171      VOLUME      474557.345 3752199.898 472.00
   LOCATION L0015172      VOLUME      474571.086 3752202.578 472.00
   LOCATION L0015173      VOLUME      474584.827 3752205.259 472.00
   LOCATION L0015174      VOLUME      474598.568 3752207.940 472.00
   LOCATION L0015175      VOLUME      474612.309 3752210.621 472.00
   LOCATION L0015176      VOLUME      474626.050 3752213.301 472.00
   LOCATION L0015177      VOLUME      474639.815 3752215.847 472.00
   LOCATION L0015178      VOLUME      474653.644 3752218.030 472.00
   LOCATION L0015179      VOLUME      474667.472 3752220.214 472.00
   LOCATION L0015180      VOLUME      474681.445 3752221.045 472.00
   LOCATION L0015181      VOLUME      474695.423 3752221.818 472.00
   LOCATION L0015182      VOLUME      474709.402 3752222.591 472.00
   LOCATION L0015183      VOLUME      474723.381 3752223.363 472.00
   LOCATION L0015184      VOLUME      474737.359 3752224.136 472.00
   LOCATION L0015185      VOLUME      474751.338 3752224.909 472.00
   LOCATION L0015186      VOLUME      474765.336 3752224.795 472.00
   LOCATION L0015187      VOLUME      474779.336 3752224.649 472.00
   LOCATION L0015188      VOLUME      474793.335 3752224.503 472.00
   LOCATION L0015189      VOLUME      474807.334 3752224.357 472.00
   LOCATION L0015190      VOLUME      474821.333 3752224.210 472.00
   LOCATION L0015191      VOLUME      474835.333 3752224.064 472.00
   LOCATION L0015192      VOLUME      474849.332 3752223.918 472.00
   LOCATION L0015193      VOLUME      474863.331 3752223.772 472.45
   LOCATION L0015194      VOLUME      474877.330 3752223.626 472.92
   LOCATION L0015195      VOLUME      474891.330 3752223.480 473.00
   LOCATION L0015196      VOLUME      474905.329 3752223.334 473.00
   LOCATION L0015197      VOLUME      474919.328 3752223.188 472.68
   LOCATION L0015198      VOLUME      474933.327 3752223.041 472.21
   LOCATION L0015199      VOLUME      474947.327 3752222.895 472.00
   LOCATION L0015200      VOLUME      474961.326 3752222.862 472.00
   LOCATION L0015201      VOLUME      474975.326 3752222.916 472.00
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   LOCATION L0015203      VOLUME      475003.326 3752223.026 472.00
   LOCATION L0015204      VOLUME      475017.326 3752223.081 472.00
   LOCATION L0015205      VOLUME      475031.326 3752223.136 472.00
   LOCATION L0015206      VOLUME      475045.325 3752223.191 472.00
   LOCATION L0015207      VOLUME      475059.325 3752223.245 472.00
   LOCATION L0015208      VOLUME      475073.325 3752223.300 472.00
   LOCATION L0015209      VOLUME      475087.325 3752223.355 472.00
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       LOCATION L0015210      VOLUME      475101.325 3752223.410 472.00
       LOCATION L0015211      VOLUME      475115.325 3752223.465 472.00
       LOCATION L0015212      VOLUME      475129.325 3752223.520 472.00
       LOCATION L0015213      VOLUME      475143.325 3752223.574 472.00
       LOCATION L0015214      VOLUME      475157.325 3752223.629 472.00
       LOCATION L0015215      VOLUME      475171.324 3752223.684 472.00
       LOCATION L0015216      VOLUME      475185.324 3752223.739 472.00
       LOCATION L0015217      VOLUME      475199.324 3752223.794 472.00
       LOCATION L0015218      VOLUME      475213.324 3752223.849 472.00
       LOCATION L0015219      VOLUME      475227.324 3752223.903 472.00
       LOCATION L0015220      VOLUME      475241.324 3752223.958 472.00
       LOCATION L0015221      VOLUME      475255.324 3752224.013 472.00
       LOCATION L0015222      VOLUME      475269.324 3752224.068 472.00
       LOCATION L0015223      VOLUME      475283.324 3752224.123 472.00
       LOCATION L0015224      VOLUME      475297.324 3752224.178 472.00
       LOCATION L0015225      VOLUME      475311.323 3752224.232 472.00
       LOCATION L0015226      VOLUME      475325.323 3752224.287 472.00
       LOCATION L0015227      VOLUME      475339.323 3752224.342 472.00
       LOCATION L0015228      VOLUME      475353.323 3752224.397 472.00
       LOCATION L0015229      VOLUME      475367.323 3752224.452 472.00
       LOCATION L0015230      VOLUME      475381.323 3752224.507 472.00
       LOCATION L0015231      VOLUME      475395.323 3752224.561 472.00
       LOCATION L0015232      VOLUME      475409.323 3752224.616 472.00
       LOCATION L0015233      VOLUME      475423.323 3752224.671 472.00
       LOCATION L0015234      VOLUME      475437.322 3752224.726 472.00
       LOCATION L0015235      VOLUME      475451.322 3752224.781 472.00
       LOCATION L0015236      VOLUME      475465.322 3752224.836 472.00
       LOCATION L0015237      VOLUME      475479.322 3752224.890 472.00
       LOCATION L0015238      VOLUME      475493.322 3752224.945 472.00
       LOCATION L0015239      VOLUME      475507.322 3752225.000 472.00
       LOCATION L0015240      VOLUME      475521.322 3752225.055 472.00
       LOCATION L0015241      VOLUME      475535.322 3752225.110 472.00
       LOCATION L0015242      VOLUME      475549.322 3752225.165 472.00
       LOCATION L0015243      VOLUME      475563.321 3752225.219 472.00
       LOCATION L0015244      VOLUME      475577.321 3752225.274 472.00
       LOCATION L0015245      VOLUME      475591.321 3752225.329 472.00
       LOCATION L0015246      VOLUME      475605.321 3752225.384 472.00
       LOCATION L0015247      VOLUME      475619.321 3752225.439 472.00
       LOCATION L0015248      VOLUME      475633.321 3752225.494 472.00
       LOCATION L0015249      VOLUME      475647.321 3752225.548 472.00
       LOCATION L0015250      VOLUME      475661.321 3752225.603 472.00
       LOCATION L0015251      VOLUME      475675.321 3752225.658 472.00
       LOCATION L0015252      VOLUME      475689.321 3752225.713 472.00
       LOCATION L0015253      VOLUME      475703.320 3752225.768 472.00
       LOCATION L0015254      VOLUME      475717.320 3752225.823 472.00
       LOCATION L0015255      VOLUME      475731.320 3752225.877 472.00
       LOCATION L0015256      VOLUME      475745.320 3752225.932 472.00
       LOCATION L0015257      VOLUME      475759.320 3752225.987 472.00
       LOCATION L0015258      VOLUME      475773.320 3752226.042 472.00
       LOCATION L0015259      VOLUME      475787.320 3752226.097 472.00
       LOCATION L0015260      VOLUME      475801.320 3752226.152 472.00
       LOCATION L0015261      VOLUME      475815.320 3752226.206 472.00
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       LOCATION L0015263      VOLUME      475843.319 3752226.316 472.00
       LOCATION L0015264      VOLUME      475857.319 3752226.371 472.00
** End of LINE VOLUME Source ID = SLINE29
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Bldg A Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.000248
** Vertical Dimension = 6.99
** SZINIT = 3.25
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** 471731.426, 3751952.879, 531.30, 3.49, 4.00
** 471270.901, 3751948.293, 523.22, 3.49, 4.00
** 471241.422, 3751945.673, 523.93, 3.49, 4.00
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   LOCATION L0015266      VOLUME     471210.633 3752228.887 516.96
   LOCATION L0015267      VOLUME     471210.633 3752220.297 517.25
   LOCATION L0015268      VOLUME     471210.633 3752211.707 517.53
   LOCATION L0015269      VOLUME     471211.293 3752203.776 517.70
   LOCATION L0015270      VOLUME     471219.883 3752203.765 518.00
   LOCATION L0015271      VOLUME     471228.473 3752203.754 518.03
   LOCATION L0015272      VOLUME     471237.063 3752203.744 518.06
   LOCATION L0015273      VOLUME     471245.653 3752203.733 518.08
   LOCATION L0015274      VOLUME     471254.243 3752203.722 518.10
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   LOCATION L0015276      VOLUME     471271.423 3752203.701 518.10
   LOCATION L0015277      VOLUME     471280.013 3752203.690 518.12
   LOCATION L0015278      VOLUME     471288.603 3752203.679 518.43
   LOCATION L0015279      VOLUME     471297.193 3752203.668 518.75
   LOCATION L0015280      VOLUME     471305.783 3752203.657 519.06
   LOCATION L0015281      VOLUME     471314.373 3752203.647 519.38
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   LOCATION L0015285      VOLUME     471348.733 3752203.604 520.89
   LOCATION L0015286      VOLUME     471357.322 3752203.593 521.43
   LOCATION L0015287      VOLUME     471365.912 3752203.582 521.97
   LOCATION L0015288      VOLUME     471374.502 3752203.571 522.37
   LOCATION L0015289      VOLUME     471383.092 3752203.561 522.66
   LOCATION L0015290      VOLUME     471391.682 3752203.550 522.94
   LOCATION L0015291      VOLUME     471400.272 3752203.539 523.25
   LOCATION L0015292      VOLUME     471408.862 3752203.528 523.83
   LOCATION L0015293      VOLUME     471417.452 3752203.518 524.40
   LOCATION L0015294      VOLUME     471426.042 3752203.507 524.97
   LOCATION L0015295      VOLUME     471434.632 3752203.496 525.40
   LOCATION L0015296      VOLUME     471443.222 3752203.485 525.71
   LOCATION L0015297      VOLUME     471451.812 3752203.474 526.03
   LOCATION L0015298      VOLUME     471460.402 3752203.464 526.30
   LOCATION L0015299      VOLUME     471468.992 3752203.453 526.07
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   LOCATION L0015301      VOLUME     471486.172 3752203.431 525.62
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** DESCRSRC Bldg B Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.0003309
** Vertical Dimension = 6.99
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    LOCATION L0015601      VOLUME      471209.815 3751574.318 527.11
    LOCATION L0015602      VOLUME      471201.225 3751574.288 527.06
    LOCATION L0015603      VOLUME      471192.635 3751574.258 527.02
    LOCATION L0015604      VOLUME      471184.064 3751573.907 526.80
    LOCATION L0015605      VOLUME      471175.526 3751572.959 526.48
    LOCATION L0015606      VOLUME      471166.989 3751572.010 526.13
    LOCATION L0015607      VOLUME      471158.451 3751571.061 525.81
    LOCATION L0015608      VOLUME      471154.342 3751563.969 525.50
    LOCATION L0015609      VOLUME      471153.640 3751555.533 525.16
    LOCATION L0015610      VOLUME      471153.640 3751546.943 524.81
    LOCATION L0015611      VOLUME      471153.640 3751538.353 524.80
** End of LINE VOLUME Source ID = SLINE31
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Bldg C Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00008154
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
** 472058.314, 3751895.231, 527.34, 3.49, 4.00
** 472068.795, 3751928.641, 524.74, 3.49, 4.00
** 472062.900, 3752218.189, 520.93, 3.49, 4.00
** 471823.138, 3752219.499, 518.28, 3.49, 4.00
** 471827.069, 3751910.298, 536.03, 3.49, 4.00
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    LOCATION L0015612      VOLUME      472059.600 3751899.329 526.97
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LOCATION L0015613     VOLUME     472062.171 3751907.525 526.05
LOCATION L0015614     VOLUME     472064.742 3751915.721 525.71
LOCATION L0015615     VOLUME     472067.314 3751923.918 525.24
LOCATION L0015616     VOLUME     472068.721 3751932.280 524.67
LOCATION L0015617     VOLUME     472068.546 3751940.868 523.88
LOCATION L0015618     VOLUME     472068.372 3751949.456 522.83
LOCATION L0015619     VOLUME     472068.197 3751958.045 521.78
LOCATION L0015620     VOLUME     472068.022 3751966.633 520.72
LOCATION L0015621     VOLUME     472067.847 3751975.221 520.98
LOCATION L0015622     VOLUME     472067.672 3751983.809 521.26
LOCATION L0015623     VOLUME     472067.497 3751992.397 521.55
LOCATION L0015624     VOLUME     472067.322 3752000.986 521.89
LOCATION L0015625     VOLUME     472067.147 3752009.574 522.28
LOCATION L0015626     VOLUME     472066.973 3752018.162 522.66
LOCATION L0015627     VOLUME     472066.798 3752026.750 523.04
LOCATION L0015628     VOLUME     472066.623 3752035.338 522.92
LOCATION L0015629     VOLUME     472066.448 3752043.927 522.82
LOCATION L0015630     VOLUME     472066.273 3752052.515 522.72
LOCATION L0015631     VOLUME     472066.098 3752061.103 522.85
LOCATION L0015632     VOLUME     472065.923 3752069.691 523.17
LOCATION L0015633     VOLUME     472065.748 3752078.280 523.49
LOCATION L0015634     VOLUME     472065.574 3752086.868 523.80
LOCATION L0015635     VOLUME     472065.399 3752095.456 523.89
LOCATION L0015636     VOLUME     472065.224 3752104.044 523.98
LOCATION L0015637     VOLUME     472065.049 3752112.632 524.06
LOCATION L0015638     VOLUME     472064.874 3752121.221 523.96
LOCATION L0015639     VOLUME     472064.699 3752129.809 523.71
LOCATION L0015640     VOLUME     472064.524 3752138.397 523.45
LOCATION L0015641     VOLUME     472064.349 3752146.985 523.19
LOCATION L0015642     VOLUME     472064.175 3752155.574 522.73
LOCATION L0015643     VOLUME     472064.000 3752164.162 522.27
LOCATION L0015644     VOLUME     472063.825 3752172.750 521.80
LOCATION L0015645     VOLUME     472063.650 3752181.338 521.48
LOCATION L0015646     VOLUME     472063.475 3752189.926 521.28
LOCATION L0015647     VOLUME     472063.300 3752198.515 521.08
LOCATION L0015648     VOLUME     472063.125 3752207.103 520.87
LOCATION L0015649     VOLUME     472062.950 3752215.691 520.59
LOCATION L0015650     VOLUME     472056.808 3752218.222 520.61
LOCATION L0015651     VOLUME     472048.218 3752218.269 520.61
LOCATION L0015652     VOLUME     472039.628 3752218.316 520.61
LOCATION L0015653     VOLUME     472031.038 3752218.363 520.61
LOCATION L0015654     VOLUME     472022.448 3752218.410 519.99
LOCATION L0015655     VOLUME     472013.858 3752218.457 519.24
LOCATION L0015656     VOLUME     472005.268 3752218.504 518.49
LOCATION L0015657     VOLUME     471996.679 3752218.550 517.96
LOCATION L0015658     VOLUME     471988.089 3752218.597 517.85
LOCATION L0015659     VOLUME     471979.499 3752218.644 517.73
LOCATION L0015660     VOLUME     471970.909 3752218.691 517.62
LOCATION L0015661     VOLUME     471962.319 3752218.738 517.84
LOCATION L0015662     VOLUME     471953.729 3752218.785 518.12
LOCATION L0015663     VOLUME     471945.139 3752218.832 518.41
LOCATION L0015664     VOLUME     471936.550 3752218.879 518.69
LOCATION L0015665     VOLUME     471927.960 3752218.926 518.98
LOCATION L0015666     VOLUME     471919.370 3752218.973 519.26
LOCATION L0015667     VOLUME     471910.780 3752219.020 519.55
LOCATION L0015668     VOLUME     471902.190 3752219.067 519.59
LOCATION L0015669     VOLUME     471893.600 3752219.114 519.58
LOCATION L0015670     VOLUME     471885.010 3752219.161 519.58
LOCATION L0015671     VOLUME     471876.420 3752219.208 519.52
LOCATION L0015672     VOLUME     471867.831 3752219.255 519.35
LOCATION L0015673     VOLUME     471859.241 3752219.302 519.19
LOCATION L0015674     VOLUME     471850.651 3752219.348 519.02
LOCATION L0015675     VOLUME     471842.061 3752219.395 518.64
LOCATION L0015676     VOLUME     471833.471 3752219.442 518.23
LOCATION L0015677     VOLUME     471824.881 3752219.489 517.82
LOCATION L0015678     VOLUME     471823.225 3752212.652 517.95
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    LOCATION L0015679      VOLUME     471823.334 3752204.063 518.30
    LOCATION L0015680      VOLUME     471823.444 3752195.474 518.87
    LOCATION L0015681      VOLUME     471823.553 3752186.885 519.45
    LOCATION L0015682      VOLUME     471823.662 3752178.295 520.03
    LOCATION L0015683      VOLUME     471823.771 3752169.706 520.63
    LOCATION L0015684      VOLUME     471823.880 3752161.117 521.25
    LOCATION L0015685      VOLUME     471823.989 3752152.527 521.87
    LOCATION L0015686      VOLUME     471824.099 3752143.938 522.56
    LOCATION L0015687      VOLUME     471824.208 3752135.349 523.38
    LOCATION L0015688      VOLUME     471824.317 3752126.759 524.20
    LOCATION L0015689      VOLUME     471824.426 3752118.170 525.02
    LOCATION L0015690      VOLUME     471824.535 3752109.581 525.44
    LOCATION L0015691      VOLUME     471824.645 3752100.991 525.78
    LOCATION L0015692      VOLUME     471824.754 3752092.402 526.12
    LOCATION L0015693      VOLUME     471824.863 3752083.813 526.46
    LOCATION L0015694      VOLUME     471824.972 3752075.224 526.81
    LOCATION L0015695      VOLUME     471825.081 3752066.634 527.16
    LOCATION L0015696      VOLUME     471825.190 3752058.045 527.51
    LOCATION L0015697      VOLUME     471825.300 3752049.456 527.86
    LOCATION L0015698      VOLUME     471825.409 3752040.866 528.21
    LOCATION L0015699      VOLUME     471825.518 3752032.277 528.57
    LOCATION L0015700      VOLUME     471825.627 3752023.688 529.02
    LOCATION L0015701      VOLUME     471825.736 3752015.098 529.67
    LOCATION L0015702      VOLUME     471825.846 3752006.509 530.32
    LOCATION L0015703      VOLUME     471825.955 3751997.920 530.97
    LOCATION L0015704      VOLUME     471826.064 3751989.330 531.52
    LOCATION L0015705      VOLUME     471826.173 3751980.741 532.04
    LOCATION L0015706      VOLUME     471826.282 3751972.152 532.57
    LOCATION L0015707      VOLUME     471826.392 3751963.563 533.11
    LOCATION L0015708      VOLUME     471826.501 3751954.973 533.70
    LOCATION L0015709      VOLUME     471826.610 3751946.384 534.29
    LOCATION L0015710      VOLUME     471826.719 3751937.795 534.88
    LOCATION L0015711      VOLUME     471826.828 3751929.205 535.28
    LOCATION L0015712      VOLUME     471826.937 3751920.616 535.66
    LOCATION L0015713      VOLUME     471827.047 3751912.027 536.02
** End of LINE VOLUME Source ID = SLINE32
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Bldg D Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.989E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471800.210, 3751645.643, 536.51, 3.49, 4.00
** 471824.448, 3751646.298, 538.29, 3.49, 4.00
** 471826.414, 3751872.303, 536.15, 3.49, 4.00
** -------------------------------------------------------------------------
    LOCATION L0015714      VOLUME     471804.504 3751645.759 537.30
    LOCATION L0015715      VOLUME     471813.090 3751645.991 537.88
    LOCATION L0015716      VOLUME     471821.677 3751646.224 538.49
    LOCATION L0015717      VOLUME     471824.499 3751652.116 538.84
    LOCATION L0015718      VOLUME     471824.574 3751660.706 539.04
    LOCATION L0015719      VOLUME     471824.648 3751669.296 539.08
    LOCATION L0015720      VOLUME     471824.723 3751677.885 538.80
    LOCATION L0015721      VOLUME     471824.798 3751686.475 538.51
    LOCATION L0015722      VOLUME     471824.872 3751695.065 538.23
    LOCATION L0015723      VOLUME     471824.947 3751703.654 538.18
    LOCATION L0015724      VOLUME     471825.022 3751712.244 538.18
    LOCATION L0015725      VOLUME     471825.096 3751720.834 538.18
    LOCATION L0015726      VOLUME     471825.171 3751729.423 538.19
    LOCATION L0015727      VOLUME     471825.246 3751738.013 538.19
    LOCATION L0015728      VOLUME     471825.320 3751746.603 538.19
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   LOCATION L0015729      VOLUME     471825.395 3751755.192 538.19
   LOCATION L0015730      VOLUME     471825.470 3751763.782 538.20
   LOCATION L0015731      VOLUME     471825.545 3751772.372 538.20
   LOCATION L0015732      VOLUME     471825.619 3751780.961 538.20
   LOCATION L0015733      VOLUME     471825.694 3751789.551 538.20
   LOCATION L0015734      VOLUME     471825.769 3751798.141 538.21
   LOCATION L0015735      VOLUME     471825.843 3751806.730 538.21
   LOCATION L0015736      VOLUME     471825.918 3751815.320 538.21
   LOCATION L0015737      VOLUME     471825.993 3751823.910 537.92
   LOCATION L0015738      VOLUME     471826.067 3751832.499 537.57
   LOCATION L0015739      VOLUME     471826.142 3751841.089 537.23
   LOCATION L0015740      VOLUME     471826.217 3751849.679 536.92
   LOCATION L0015741      VOLUME     471826.291 3751858.268 536.70
   LOCATION L0015742      VOLUME     471826.366 3751866.858 536.48
** End of LINE VOLUME Source ID = SLINE33
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Bldg E Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.448E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471470.702, 3751503.490, 534.12, 3.49, 4.00
** 471476.598, 3751257.177, 526.08, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0015743      VOLUME     471470.805 3751499.196 534.21
   LOCATION L0015744      VOLUME     471471.010 3751490.608 534.49
   LOCATION L0015745      VOLUME     471471.216 3751482.021 534.71
   LOCATION L0015746      VOLUME     471471.421 3751473.433 534.87
   LOCATION L0015747      VOLUME     471471.627 3751464.846 535.03
   LOCATION L0015748      VOLUME     471471.832 3751456.258 535.17
   LOCATION L0015749      VOLUME     471472.038 3751447.671 534.99
   LOCATION L0015750      VOLUME     471472.243 3751439.083 534.82
   LOCATION L0015751      VOLUME     471472.449 3751430.496 534.64
   LOCATION L0015752      VOLUME     471472.655 3751421.908 534.41
   LOCATION L0015753      VOLUME     471472.860 3751413.321 534.11
   LOCATION L0015754      VOLUME     471473.066 3751404.733 533.82
   LOCATION L0015755      VOLUME     471473.271 3751396.145 533.52
   LOCATION L0015756      VOLUME     471473.477 3751387.558 533.09
   LOCATION L0015757      VOLUME     471473.682 3751378.970 532.66
   LOCATION L0015758      VOLUME     471473.888 3751370.383 532.23
   LOCATION L0015759      VOLUME     471474.093 3751361.795 531.79
   LOCATION L0015760      VOLUME     471474.299 3751353.208 531.34
   LOCATION L0015761      VOLUME     471474.505 3751344.620 530.90
   LOCATION L0015762      VOLUME     471474.710 3751336.033 530.45
   LOCATION L0015763      VOLUME     471474.916 3751327.445 529.87
   LOCATION L0015764      VOLUME     471475.121 3751318.858 529.29
   LOCATION L0015765      VOLUME     471475.327 3751310.270 528.72
   LOCATION L0015766      VOLUME     471475.532 3751301.682 528.23
   LOCATION L0015767      VOLUME     471475.738 3751293.095 527.84
   LOCATION L0015768      VOLUME     471475.943 3751284.507 527.45
   LOCATION L0015769      VOLUME     471476.149 3751275.920 527.08
   LOCATION L0015770      VOLUME     471476.354 3751267.332 526.81
   LOCATION L0015771      VOLUME     471476.560 3751258.745 526.54
** End of LINE VOLUME Source ID = SLINE34
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Bldg F Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
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**  Emission Rate = 2.428E-06
**  Vertical Dimension = 6.99
**  SZINIT = 3.25
**  Nodes = 2
**  471418.295, 3751503.490, 535.70, 3.49, 4.00
**  471422.225, 3751259.143, 524.24, 3.49, 4.00
**  ------------------------------------------------------------------------
   LOCATION L0015772      VOLUME     471418.364 3751499.195 535.95
   LOCATION L0015773      VOLUME     471418.502 3751490.606 536.24
   LOCATION L0015774      VOLUME     471418.640 3751482.017 536.46
   LOCATION L0015775      VOLUME     471418.778 3751473.429 536.64
   LOCATION L0015776      VOLUME     471418.917 3751464.840 536.82
   LOCATION L0015777      VOLUME     471419.055 3751456.251 536.99
   LOCATION L0015778      VOLUME     471419.193 3751447.662 536.80
   LOCATION L0015779      VOLUME     471419.331 3751439.073 536.61
   LOCATION L0015780      VOLUME     471419.469 3751430.484 536.42
   LOCATION L0015781      VOLUME     471419.607 3751421.895 536.17
   LOCATION L0015782      VOLUME     471419.746 3751413.306 535.88
   LOCATION L0015783      VOLUME     471419.884 3751404.717 535.59
   LOCATION L0015784      VOLUME     471420.022 3751396.129 535.28
   LOCATION L0015785      VOLUME     471420.160 3751387.540 534.71
   LOCATION L0015786      VOLUME     471420.298 3751378.951 534.13
   LOCATION L0015787      VOLUME     471420.436 3751370.362 533.55
   LOCATION L0015788      VOLUME     471420.575 3751361.773 532.88
   LOCATION L0015789      VOLUME     471420.713 3751353.184 532.13
   LOCATION L0015790      VOLUME     471420.851 3751344.595 531.39
   LOCATION L0015791      VOLUME     471420.989 3751336.006 530.67
   LOCATION L0015792      VOLUME     471421.127 3751327.417 530.10
   LOCATION L0015793      VOLUME     471421.265 3751318.829 529.54
   LOCATION L0015794      VOLUME     471421.403 3751310.240 528.97
   LOCATION L0015795      VOLUME     471421.542 3751301.651 528.28
   LOCATION L0015796      VOLUME     471421.680 3751293.062 527.50
   LOCATION L0015797      VOLUME     471421.818 3751284.473 526.71
   LOCATION L0015798      VOLUME     471421.956 3751275.884 525.95
   LOCATION L0015799      VOLUME     471422.094 3751267.295 525.38
**  End of LINE VOLUME Source ID = SLINE35
**  ------------------------------------------------------------------------
**  Line Source Represented by Adjacent Volume Sources
**  LINE VOLUME Source ID = SLINE36
**  DESCRSRC Bldg G Onsite
**  PREFIX
**  Length of Side = 8.59
**  Configuration = Adjacent
**  Emission Rate = 2.681E-06
**  Vertical Dimension = 6.99
**  SZINIT = 3.25
**  Nodes = 4
**  471107.129, 3752267.320, 510.95, 3.49, 4.00
**  471107.129, 3752298.764, 509.32, 3.49, 4.00
**  471317.412, 3752299.419, 513.10, 3.49, 4.00
**  471317.412, 3752271.251, 515.31, 3.49, 4.00
**  ------------------------------------------------------------------------
   LOCATION L0015800      VOLUME     471107.129 3752271.615 511.01
   LOCATION L0015801      VOLUME     471107.129 3752280.205 510.58
   LOCATION L0015802      VOLUME     471107.129 3752288.795 510.15
   LOCATION L0015803      VOLUME     471107.129 3752297.385 509.77
   LOCATION L0015804      VOLUME     471114.340 3752298.787 510.48
   LOCATION L0015805      VOLUME     471122.930 3752298.813 511.30
   LOCATION L0015806      VOLUME     471131.520 3752298.840 511.94
   LOCATION L0015807      VOLUME     471140.110 3752298.867 511.98
   LOCATION L0015808      VOLUME     471148.700 3752298.894 512.02
   LOCATION L0015809      VOLUME     471157.290 3752298.920 512.06
   LOCATION L0015810      VOLUME     471165.880 3752298.947 512.47
   LOCATION L0015811      VOLUME     471174.470 3752298.974 513.00
   LOCATION L0015812      VOLUME     471183.060 3752299.001 513.52
   LOCATION L0015813      VOLUME     471191.649 3752299.028 513.92
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   LOCATION L0015814      VOLUME      471200.239 3752299.054 513.92
   LOCATION L0015815      VOLUME      471208.829 3752299.081 513.92
   LOCATION L0015816      VOLUME      471217.419 3752299.108 513.92
   LOCATION L0015817      VOLUME      471226.009 3752299.135 513.50
   LOCATION L0015818      VOLUME      471234.599 3752299.161 512.95
   LOCATION L0015819      VOLUME      471243.189 3752299.188 512.41
   LOCATION L0015820      VOLUME      471251.779 3752299.215 512.07
   LOCATION L0015821      VOLUME      471260.369 3752299.242 512.36
   LOCATION L0015822      VOLUME      471268.959 3752299.268 512.65
   LOCATION L0015823      VOLUME      471277.549 3752299.295 512.93
   LOCATION L0015824      VOLUME      471286.139 3752299.322 512.98
   LOCATION L0015825      VOLUME      471294.729 3752299.349 512.95
   LOCATION L0015826      VOLUME      471303.319 3752299.375 512.93
   LOCATION L0015827      VOLUME      471311.909 3752299.402 512.91
   LOCATION L0015828      VOLUME      471317.412 3752296.332 513.03
   LOCATION L0015829      VOLUME      471317.412 3752287.742 513.75
   LOCATION L0015830      VOLUME      471317.412 3752279.152 514.47
** End of LINE VOLUME Source ID = SLINE36
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Bldg H Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.668E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471343.615, 3752270.596, 516.97, 3.49, 4.00
** 471343.615, 3752300.729, 513.20, 3.49, 4.00
** 471551.932, 3752303.350, 521.01, 3.49, 4.00
** 471552.588, 3752273.216, 522.80, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0015831      VOLUME      471343.615 3752274.891 515.97
   LOCATION L0015832      VOLUME      471343.615 3752283.481 514.91
   LOCATION L0015833      VOLUME      471343.615 3752292.071 513.84
   LOCATION L0015834      VOLUME      471343.615 3752300.661 513.14
   LOCATION L0015835      VOLUME      471352.135 3752300.837 513.70
   LOCATION L0015836      VOLUME      471360.725 3752300.945 514.27
   LOCATION L0015837      VOLUME      471369.314 3752301.053 514.84
   LOCATION L0015838      VOLUME      471377.903 3752301.161 514.77
   LOCATION L0015839      VOLUME      471386.493 3752301.269 514.67
   LOCATION L0015840      VOLUME      471395.082 3752301.377 514.57
   LOCATION L0015841      VOLUME      471403.671 3752301.485 514.54
   LOCATION L0015842      VOLUME      471412.261 3752301.593 514.57
   LOCATION L0015843      VOLUME      471420.850 3752301.701 514.61
   LOCATION L0015844      VOLUME      471429.439 3752301.809 514.65
   LOCATION L0015845      VOLUME      471438.029 3752301.917 515.36
   LOCATION L0015846      VOLUME      471446.618 3752302.025 516.08
   LOCATION L0015847      VOLUME      471455.207 3752302.133 516.81
   LOCATION L0015848      VOLUME      471463.797 3752302.241 517.47
   LOCATION L0015849      VOLUME      471472.386 3752302.349 518.05
   LOCATION L0015850      VOLUME      471480.975 3752302.457 518.62
   LOCATION L0015851      VOLUME      471489.565 3752302.565 519.20
   LOCATION L0015852      VOLUME      471498.154 3752302.673 519.66
   LOCATION L0015853      VOLUME      471506.743 3752302.781 520.12
   LOCATION L0015854      VOLUME      471515.333 3752302.889 520.57
   LOCATION L0015855      VOLUME      471523.922 3752302.997 520.79
   LOCATION L0015856      VOLUME      471532.511 3752303.106 520.78
   LOCATION L0015857      VOLUME      471541.101 3752303.214 520.78
   LOCATION L0015858      VOLUME      471549.690 3752303.322 520.77
   LOCATION L0015859      VOLUME      471552.070 3752297.004 520.90
   LOCATION L0015860      VOLUME      471552.257 3752288.416 521.41
   LOCATION L0015861      VOLUME      471552.444 3752279.828 521.92
** End of LINE VOLUME Source ID = SLINE37
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** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Bldg J Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.99E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471580.756, 3752273.871, 520.11, 3.49, 4.00
** 471580.101, 3752301.385, 519.97, 3.49, 4.00
** 471784.488, 3752302.695, 518.69, 3.49, 4.00
** 471784.488, 3752277.801, 519.06, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0015862      VOLUME     471580.654 3752278.165 519.93
   LOCATION L0015863      VOLUME     471580.450 3752286.752 519.94
   LOCATION L0015864      VOLUME     471580.245 3752295.340 519.95
   LOCATION L0015865      VOLUME     471582.645 3752301.401 519.51
   LOCATION L0015866      VOLUME     471591.235 3752301.456 519.03
   LOCATION L0015867      VOLUME     471599.824 3752301.511 518.54
   LOCATION L0015868      VOLUME     471608.414 3752301.566 518.06
   LOCATION L0015869      VOLUME     471617.004 3752301.621 518.21
   LOCATION L0015870      VOLUME     471625.594 3752301.676 518.44
   LOCATION L0015871      VOLUME     471634.184 3752301.731 518.68
   LOCATION L0015872      VOLUME     471642.773 3752301.786 519.02
   LOCATION L0015873      VOLUME     471651.363 3752301.841 519.54
   LOCATION L0015874      VOLUME     471659.953 3752301.896 520.06
   LOCATION L0015875      VOLUME     471668.543 3752301.951 520.58
   LOCATION L0015876      VOLUME     471677.133 3752302.007 520.39
   LOCATION L0015877      VOLUME     471685.723 3752302.062 520.10
   LOCATION L0015878      VOLUME     471694.312 3752302.117 519.81
   LOCATION L0015879      VOLUME     471702.902 3752302.172 519.54
   LOCATION L0015880      VOLUME     471711.492 3752302.227 519.30
   LOCATION L0015881      VOLUME     471720.082 3752302.282 519.07
   LOCATION L0015882      VOLUME     471728.672 3752302.337 518.83
   LOCATION L0015883      VOLUME     471737.262 3752302.392 518.81
   LOCATION L0015884      VOLUME     471745.851 3752302.447 518.81
   LOCATION L0015885      VOLUME     471754.441 3752302.502 518.80
   LOCATION L0015886      VOLUME     471763.031 3752302.557 518.83
   LOCATION L0015887      VOLUME     471771.621 3752302.612 518.88
   LOCATION L0015888      VOLUME     471780.211 3752302.667 518.94
   LOCATION L0015889      VOLUME     471784.488 3752298.382 518.99
   LOCATION L0015890      VOLUME     471784.488 3752289.792 519.08
   LOCATION L0015891      VOLUME     471784.488 3752281.202 519.17
** End of LINE VOLUME Source ID = SLINE38
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Bldg K Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 2.936E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 471784.488, 3752278.457, 519.06, 3.49, 4.00
** 471783.833, 3752303.350, 518.65, 3.49, 4.00
** 472054.383, 3752304.005, 515.09, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0015892      VOLUME     471784.375 3752282.750 519.16
   LOCATION L0015893      VOLUME     471784.149 3752291.337 519.06
   LOCATION L0015894      VOLUME     471783.923 3752299.924 518.98
   LOCATION L0015895      VOLUME     471788.996 3752303.362 519.00
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   LOCATION L0015896      VOLUME    471797.586 3752303.383 517.13
   LOCATION L0015897      VOLUME    471806.176 3752303.404 515.13
   LOCATION L0015898      VOLUME    471814.766 3752303.425 513.12
   LOCATION L0015899      VOLUME    471823.356 3752303.446 512.22
   LOCATION L0015900      VOLUME    471831.946 3752303.466 512.73
   LOCATION L0015901      VOLUME    471840.536 3752303.487 513.24
   LOCATION L0015902      VOLUME    471849.126 3752303.508 513.74
   LOCATION L0015903      VOLUME    471857.716 3752303.529 514.38
   LOCATION L0015904      VOLUME    471866.306 3752303.549 515.01
   LOCATION L0015905      VOLUME    471874.896 3752303.570 515.65
   LOCATION L0015906      VOLUME    471883.486 3752303.591 516.10
   LOCATION L0015907      VOLUME    471892.076 3752303.612 516.32
   LOCATION L0015908      VOLUME    471900.666 3752303.633 516.54
   LOCATION L0015909      VOLUME    471909.256 3752303.653 516.76
   LOCATION L0015910      VOLUME    471917.846 3752303.674 516.70
   LOCATION L0015911      VOLUME    471926.436 3752303.695 516.63
   LOCATION L0015912      VOLUME    471935.026 3752303.716 516.56
   LOCATION L0015913      VOLUME    471943.616 3752303.737 516.46
   LOCATION L0015914      VOLUME    471952.206 3752303.757 516.30
   LOCATION L0015915      VOLUME    471960.796 3752303.778 516.15
   LOCATION L0015916      VOLUME    471969.386 3752303.799 516.00
   LOCATION L0015917      VOLUME    471977.975 3752303.820 515.80
   LOCATION L0015918      VOLUME    471986.565 3752303.841 515.59
   LOCATION L0015919      VOLUME    471995.155 3752303.861 515.38
   LOCATION L0015920      VOLUME    472003.745 3752303.882 515.14
   LOCATION L0015921      VOLUME    472012.335 3752303.903 514.85
   LOCATION L0015922      VOLUME    472020.925 3752303.924 514.56
   LOCATION L0015923      VOLUME    472029.515 3752303.945 514.27
   LOCATION L0015924      VOLUME    472038.105 3752303.965 514.06
   LOCATION L0015925      VOLUME    472046.695 3752303.986 513.84
** End of LINE VOLUME Source ID = SLINE39
** -----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC MU 98k N Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 7.811E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471108.011, 3752252.737, 510.65, 3.49, 4.00
** 471088.082, 3752263.134, 509.92, 3.49, 4.00
** 471087.216, 3752138.365, 512.23, 3.49, 4.00
** 471105.411, 3752138.365, 512.82, 3.49, 4.00
** -----------------------------------------------------------------------
   LOCATION L0015926      VOLUME    471104.203 3752254.723 510.82
   LOCATION L0015927      VOLUME    471096.587 3752258.697 510.49
   LOCATION L0015928      VOLUME    471088.971 3752262.670 509.90
   LOCATION L0015929      VOLUME    471088.030 3752255.547 509.76
   LOCATION L0015930      VOLUME    471087.970 3752246.957 509.69
   LOCATION L0015931      VOLUME    471087.910 3752238.367 509.63
   LOCATION L0015932      VOLUME    471087.851 3752229.778 509.52
   LOCATION L0015933      VOLUME    471087.791 3752221.188 509.41
   LOCATION L0015934      VOLUME    471087.731 3752212.598 509.29
   LOCATION L0015935      VOLUME    471087.672 3752204.008 509.35
   LOCATION L0015936      VOLUME    471087.612 3752195.419 509.80
   LOCATION L0015937      VOLUME    471087.552 3752186.829 510.26
   LOCATION L0015938      VOLUME    471087.493 3752178.239 510.71
   LOCATION L0015939      VOLUME    471087.433 3752169.649 511.21
   LOCATION L0015940      VOLUME    471087.373 3752161.059 511.72
   LOCATION L0015941      VOLUME    471087.314 3752152.470 512.24
   LOCATION L0015942      VOLUME    471087.254 3752143.880 512.50
   LOCATION L0015943      VOLUME    471090.291 3752138.365 512.42
   LOCATION L0015944      VOLUME    471098.881 3752138.365 512.70
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** End of LINE VOLUME Source ID = SLINE40
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC MU 77k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.443E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 5
** 471049.183, 3751936.315, 514.26, 3.49, 4.00
** 471025.238, 3751936.848, 512.71, 3.49, 4.00
** 471014.596, 3751940.040, 511.99, 3.49, 4.00
** 471051.312, 3752029.436, 515.14, 3.49, 4.00
** 471065.147, 3752023.583, 515.98, 3.49, 4.00
** -------------------------------------------------------------------------
   LOCATION L0015945      VOLUME     471044.889 3751936.411 514.52
   LOCATION L0015946      VOLUME     471036.302 3751936.602 513.78
   LOCATION L0015947      VOLUME     471027.714 3751936.793 513.21
   LOCATION L0015948      VOLUME     471019.382 3751938.604 512.63
   LOCATION L0015949      VOLUME     471015.961 3751943.364 512.38
   LOCATION L0015950      VOLUME     471019.224 3751951.310 512.49
   LOCATION L0015951      VOLUME     471022.488 3751959.255 512.54
   LOCATION L0015952      VOLUME     471025.751 3751967.201 512.56
   LOCATION L0015953      VOLUME     471029.015 3751975.147 512.93
   LOCATION L0015954      VOLUME     471032.278 3751983.093 513.31
   LOCATION L0015955      VOLUME     471035.542 3751991.039 513.68
   LOCATION L0015956      VOLUME     471038.805 3751998.985 514.05
   LOCATION L0015957      VOLUME     471042.069 3752006.931 514.48
   LOCATION L0015958      VOLUME     471045.332 3752014.877 514.88
   LOCATION L0015959      VOLUME     471048.596 3752022.823 515.21
   LOCATION L0015960      VOLUME     471052.638 3752028.875 515.36
   LOCATION L0015961      VOLUME     471060.549 3752025.528 515.69
** End of LINE VOLUME Source ID = SLINE41
** -------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE42
** DESCRSRC MU 131k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.97E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471048.119, 3751831.488, 512.51, 3.49, 4.00
** 471028.963, 3751831.488, 514.06, 3.49, 4.00
** 471029.495, 3751725.596, 517.84, 3.49, 4.00
** 471046.523, 3751725.596, 518.09, 3.49, 4.00
** -------------------------------------------------------------------------
   LOCATION L0015962      VOLUME     471043.824 3751831.488 512.43
   LOCATION L0015963      VOLUME     471035.234 3751831.488 512.94
   LOCATION L0015964      VOLUME     471028.974 3751829.169 513.70
   LOCATION L0015965      VOLUME     471029.018 3751820.579 514.18
   LOCATION L0015966      VOLUME     471029.061 3751811.989 514.44
   LOCATION L0015967      VOLUME     471029.104 3751803.400 514.53
   LOCATION L0015968      VOLUME     471029.147 3751794.810 514.61
   LOCATION L0015969      VOLUME     471029.190 3751786.220 514.71
   LOCATION L0015970      VOLUME     471029.233 3751777.630 515.08
   LOCATION L0015971      VOLUME     471029.277 3751769.040 515.46
   LOCATION L0015972      VOLUME     471029.320 3751760.450 515.83
   LOCATION L0015973      VOLUME     471029.363 3751751.860 516.27
   LOCATION L0015974      VOLUME     471029.406 3751743.270 516.74
   LOCATION L0015975      VOLUME     471029.449 3751734.680 517.22
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   LOCATION L0015976      VOLUME      471029.492 3751726.091 517.69
   LOCATION L0015977      VOLUME      471037.591 3751725.596 517.97
   LOCATION L0015978      VOLUME      471046.181 3751725.596 518.26
** End of LINE VOLUME Source ID = SLINE42
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE43
** DESCRSRC MU 98k S Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 6.437E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 471045.991, 3751685.155, 519.96, 3.49, 4.00
** 471028.431, 3751686.219, 519.11, 3.49, 4.00
** 471028.963, 3751588.309, 521.52, 3.49, 4.00
** 471049.715, 3751587.777, 522.51, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0015979      VOLUME      471041.703 3751685.415 520.27
   LOCATION L0015980      VOLUME      471033.129 3751685.935 519.92
   LOCATION L0015981      VOLUME      471028.452 3751682.337 520.08
   LOCATION L0015982      VOLUME      471028.498 3751673.747 520.73
   LOCATION L0015983      VOLUME      471028.545 3751665.157 521.30
   LOCATION L0015984      VOLUME      471028.592 3751656.567 521.48
   LOCATION L0015985      VOLUME      471028.639 3751647.977 521.67
   LOCATION L0015986      VOLUME      471028.685 3751639.387 521.86
   LOCATION L0015987      VOLUME      471028.732 3751630.797 521.72
   LOCATION L0015988      VOLUME      471028.779 3751622.207 521.44
   LOCATION L0015989      VOLUME      471028.825 3751613.618 521.16
   LOCATION L0015990      VOLUME      471028.872 3751605.028 520.97
   LOCATION L0015991      VOLUME      471028.919 3751596.438 521.18
   LOCATION L0015992      VOLUME      471029.424 3751588.298 521.40
   LOCATION L0015993      VOLUME      471038.011 3751588.077 521.91
   LOCATION L0015994      VOLUME      471046.598 3751587.857 522.47
** End of LINE VOLUME Source ID = SLINE43
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE44
** DESCRSRC MU 110k Onsite
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 8.895E-07
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 471143.092, 3751331.498, 523.06, 3.49, 4.00
** 471143.544, 3751499.315, 524.31, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0015995      VOLUME      471143.103 3751335.793 523.42
   LOCATION L0015996      VOLUME      471143.126 3751344.383 523.57
   LOCATION L0015997      VOLUME      471143.150 3751352.973 523.70
   LOCATION L0015998      VOLUME      471143.173 3751361.563 523.83
   LOCATION L0015999      VOLUME      471143.196 3751370.153 523.86
   LOCATION L0016000      VOLUME      471143.219 3751378.743 523.73
   LOCATION L0016001      VOLUME      471143.242 3751387.333 523.60
   LOCATION L0016002      VOLUME      471143.265 3751395.923 523.47
   LOCATION L0016003      VOLUME      471143.288 3751404.513 523.72
   LOCATION L0016004      VOLUME      471143.312 3751413.103 524.01
   LOCATION L0016005      VOLUME      471143.335 3751421.693 524.29
   LOCATION L0016006      VOLUME      471143.358 3751430.283 524.52
   LOCATION L0016007      VOLUME      471143.381 3751438.873 524.65
   LOCATION L0016008      VOLUME      471143.404 3751447.463 524.78
   LOCATION L0016009      VOLUME      471143.427 3751456.053 524.92
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    LOCATION L0016010      VOLUME      471143.451 3751464.643 524.80
    LOCATION L0016011      VOLUME      471143.474 3751473.233 524.67
    LOCATION L0016012      VOLUME      471143.497 3751481.823 524.54
    LOCATION L0016013      VOLUME      471143.520 3751490.413 524.47
    LOCATION L0016014      VOLUME      471143.543 3751499.003 524.47
** End of LINE VOLUME Source ID = SLINE44
    LOCATION VOL1          VOLUME      471181.960  3752304.060      513.370
    LOCATION VOL2          VOLUME      471239.319  3752304.480      512.590
    LOCATION VOL3          VOLUME      471418.605  3752307.879      514.110
    LOCATION VOL4          VOLUME      471478.083  3752306.179      518.550
    LOCATION VOL5          VOLUME      471654.820  3752307.879      519.450
    LOCATION VOL6          VOLUME      471701.554  3752307.029      519.260
    LOCATION VOL7          VOLUME      471898.684  3752304.480      516.470
    LOCATION VOL8          VOLUME      471954.764  3752304.480      516.240
    LOCATION VOL9          VOLUME      472010.844  3752304.480      514.840
    LOCATION VOL10         VOLUME      472064.374  3752303.630      513.360
    LOCATION VOL11         VOLUME      471824.760  3752143.037      522.690
    LOCATION VOL12         VOLUME      471825.610  3752089.507      526.290
    LOCATION VOL13         VOLUME      471827.309  3752034.276      528.710
    LOCATION VOL14         VOLUME      471828.159  3751980.745      532.340
    LOCATION VOL15         VOLUME      472066.074  3752185.522      521.180
    LOCATION VOL16         VOLUME      472066.924  3752131.142      523.290
    LOCATION VOL17         VOLUME      472067.773  3752074.212      522.950
    LOCATION VOL18         VOLUME      472067.773  3752015.583      522.440
    LOCATION VOL19         VOLUME      471830.708  3751782.766      538.370
    LOCATION VOL20         VOLUME      471831.557  3751722.437      538.400
    LOCATION VOL21         VOLUME      471277.555  3752206.765      518.000
    LOCATION VOL22         VOLUME      471334.485  3752208.464      519.710
    LOCATION VOL23         VOLUME      471390.565  3752207.614      522.600
    LOCATION VOL24         VOLUME      471447.494  3752209.314      525.240
    LOCATION VOL25         VOLUME      471503.574  3752211.013      525.110
    LOCATION VOL26         VOLUME      471558.805  3752211.013      525.090
    LOCATION VOL27         VOLUME      471614.885  3752210.163      524.830
    LOCATION VOL28         VOLUME      471670.965  3752210.163      525.880
    LOCATION VOL29         VOLUME      471726.195  3752210.163      524.110
    LOCATION VOL30         VOLUME      471277.555  3751951.761      522.090
    LOCATION VOL31         VOLUME      471334.485  3751953.461      522.830
    LOCATION VOL32         VOLUME      471390.565  3751952.611      525.770
    LOCATION VOL33         VOLUME      471447.494  3751954.310      529.200
    LOCATION VOL34         VOLUME      471503.574  3751956.010      531.630
    LOCATION VOL35         VOLUME      471558.805  3751956.010      534.510
    LOCATION VOL36         VOLUME      471614.885  3751955.160      535.890
    LOCATION VOL37         VOLUME      471670.965  3751955.160      534.120
    LOCATION VOL38         VOLUME      471726.195  3751955.160      531.620
    LOCATION VOL39         VOLUME      471239.319  3751839.601      518.990
    LOCATION VOL40         VOLUME      471296.248  3751841.301      523.710
    LOCATION VOL41         VOLUME      471352.328  3751840.451      523.540
    LOCATION VOL42         VOLUME      471409.258  3751842.150      525.220
    LOCATION VOL43         VOLUME      471465.338  3751843.850      528.370
    LOCATION VOL44         VOLUME      471520.568  3751843.850      531.100
    LOCATION VOL45         VOLUME      471576.648  3751843.000      535.570
    LOCATION VOL46         VOLUME      471632.728  3751843.000      535.970
    LOCATION VOL47         VOLUME      471687.959  3751843.000      536.000
    LOCATION VOL48         VOLUME      471240.168  3751577.045      528.370
    LOCATION VOL49         VOLUME      471297.098  3751578.744      530.670
    LOCATION VOL50         VOLUME      471353.178  3751577.894      536.480
    LOCATION VOL51         VOLUME      471410.108  3751579.594      535.200
    LOCATION VOL52         VOLUME      471466.188  3751581.293      532.400
    LOCATION VOL53         VOLUME      471521.418  3751581.293      530.780
    LOCATION VOL54         VOLUME      471577.498  3751580.444      529.870
    LOCATION VOL55         VOLUME      471633.578  3751580.444      529.130
    LOCATION VOL56         VOLUME      471688.808  3751580.444      530.460
    LOCATION VOL57         VOLUME      471743.189  3751843.094      536.450
    LOCATION VOL58         VOLUME      471749.987  3751788.714      536.680
    LOCATION VOL59         VOLUME      471749.987  3751733.483      535.750
    LOCATION VOL60         VOLUME      471750.836  3751679.953      535.710
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LOCATION VOL61        VOLUME    471752.536  3751624.722      534.770
LOCATION VOL62        VOLUME    471744.039  3751581.388      534.050
LOCATION VOL63        VOLUME    471477.234  3751395.304      533.340
LOCATION VOL64        VOLUME    471477.234  3751340.074      530.570
LOCATION VOL65        VOLUME    471478.933  3751284.843      527.580
LOCATION VOL66        VOLUME    471414.356  3751392.755      535.250
LOCATION VOL67        VOLUME    471416.905  3751338.374      530.740
LOCATION VOL68        VOLUME    471418.605  3751282.294      526.500
LOCATION VOL69        VOLUME    471143.303  3751416.546      524.120
LOCATION VOL70        VOLUME    471037.091  3751617.925      522.130
LOCATION VOL71        VOLUME    471036.241  3751660.410      521.970
LOCATION VOL72        VOLUME    471036.241  3751759.824      515.810
LOCATION VOL73        VOLUME    471036.241  3751798.060      513.920
LOCATION VOL74        VOLUME    471204.481  3751289.942      524.940
LOCATION VOL75        VOLUME    471037.940  3751990.942      513.760
LOCATION VOL76        VOLUME    471094.020  3752184.673      510.960
LOCATION VOL77        VOLUME    471093.171  3752238.203      509.820
LOCATION STCK1        POINT     471144.890  3752388.132      507.900
LOCATION STCK2        POINT     471301.573  3752383.918      512.670
LOCATION STCK3        POINT     471622.829  3752382.887      513.840
LOCATION STCK4        POINT     471805.219  3752371.930      508.900
LOCATION STCK5        POINT     471848.075  3752202.600      519.220
LOCATION STCK6        POINT     471211.824  3752184.959      517.560
LOCATION STCK7        POINT     471149.493  3751819.203      517.890
LOCATION STCK8        POINT     471850.427  3751834.492      537.800
LOCATION STCK9        POINT     471312.966  3751462.855      532.110
LOCATION STCK10       POINT     471494.079  3751465.208      533.850
LOCATION VOL78        VOLUME    471027.182  3751936.809      513.170
LOCATION STCK11       POINT     471017.588  3752268.779      506.200
LOCATION STCK12       POINT     470997.944  3752063.925      513.370
LOCATION STCK13       POINT     470933.401  3751828.203      517.410
LOCATION STCK14       POINT     470946.029  3751678.070      516.880
LOCATION STCK15       POINT     471164.914  3751464.798      525.780
LOCATION STCK16       POINT     471639.164  3751478.829      530.010
LOCATION STCK17       POINT     471404.845  3752382.430      509.270
LOCATION STCK18       POINT     471483.419  3752385.237      517.030
LOCATION STCK19       POINT     471954.863  3752378.221      513.280
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0016311    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016312    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016313    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016314    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016315    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016316    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016317    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016318    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016319    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016320    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016321    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016322    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016323    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016324    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016325    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016326    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016327    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016328    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016329    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016330    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016331    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016332    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016333    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016334    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016335    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016336    0.000001632     3.49      4.00      3.25
   SRCPARAM L0016337    0.000001632     3.49      4.00      3.25
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   SRCPARAM L0016338      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016339      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016340      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016341      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016342      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016343      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016344      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016345      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016346      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016347      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016348      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016349      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016350      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016351      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016352      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016353      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016354      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016355      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016356      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016357      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016358      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016359      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016360      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016361      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016362      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016363      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016364      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016365      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016366      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016367      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016368      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016369      0.000001632      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0016370      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016371      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016372      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016373      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016374      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016375      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016376      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016377      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016378      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016379      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016380      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016381      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016382      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016383      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016384      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016385      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016386      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016387      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016388      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016389      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016390      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016391      0.000004186      3.49      4.00      3.25
   SRCPARAM L0016392      0.000004186      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0016393      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016394      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016395      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016396      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016397      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016398      0.000001632      3.49      4.00      3.25
   SRCPARAM L0016399      0.000001632      3.49      4.00      3.25
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   SRCPARAM L0016400    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016401    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016402    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016403    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016404    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016405    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016406    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016407    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016408    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016409    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016410    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016411    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016412    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016413    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016414    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016415    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016416    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016417    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016418    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016419    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016420    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016421    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016422    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016423    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016424    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016425    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016426    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016427    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016428    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016429    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016430    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016431    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016432    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016433    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016434    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016435    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016436    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016437    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016438    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016439    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016440    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016441    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016442    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016443    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016444    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016445    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016446    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016447    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016448    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016449    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016450    0.000001632     3.49     4.00     3.25
   SRCPARAM L0016451    0.000001632     3.49     4.00     3.25
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** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0016452    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016453    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016454    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016455    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016456    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016457    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016458    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016459    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016460    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016461    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016462    0.000002263     3.49     4.00     3.25
   SRCPARAM L0016463    0.000002263     3.49     4.00     3.25
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      SRCPARAM L0016464      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016465      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016466      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016467      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016468      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016469      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016470      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016471      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016472      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016473      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016474      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016475      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016476      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016477      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016478      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016479      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016480      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016481      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016482      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016483      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016484      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016485      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016486      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016487      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016488      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016489      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016490      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016491      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016492      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016493      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016494      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016495      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016496      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016497      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016498      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016499      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016500      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016501      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016502      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016503      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016504      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016505      0.000002263       3.49      4.00      3.25
**  -------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE5
      SRCPARAM L0016506      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016507      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016508      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016509      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016510      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016511      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016512      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016513      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016514      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016515      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016516      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016517      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016518      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016519      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016520      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016521      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016522      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016523      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016524      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016525      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016526      0.000002263       3.49      4.00      3.25
      SRCPARAM L0016527      0.000002263       3.49      4.00      3.25
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   SRCPARAM L0016528        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016529        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016530        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016531        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016532        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016533        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016534        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016535        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016536        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016537        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016538        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016539        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016540        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016541        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016542        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016543        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016544        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016545        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016546        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016547        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016548        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016549        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016550        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016551        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016552        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016553        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016554        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016555        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016556        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016557        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016558        0.000002263      3.49       4.00       3.25
   SRCPARAM L0016559        0.000002263      3.49       4.00       3.25
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** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0016560        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016561        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016562        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016563        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016564        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016565        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016566        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016567        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016568        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016569        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016570        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016571        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016572        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016573        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016574        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016575        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016576        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016577        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016578        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016579        0.000002859      3.49       4.00       3.25
   SRCPARAM L0016580        0.000002859      3.49       4.00       3.25
** -------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0016581        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016582        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016583        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016584        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016585        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016586        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016587        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016588        0.0000001137      3.49       4.00       3.25
   SRCPARAM L0016589        0.0000001137      3.49       4.00       3.25
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   SRCPARAM L0016590     0.0000001137      3.49      4.00      3.25
   SRCPARAM L0016591     0.0000001137      3.49      4.00      3.25
   SRCPARAM L0016592     0.0000001137      3.49      4.00      3.25
   SRCPARAM L0016593     0.0000001137      3.49      4.00      3.25
** -------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0016594     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016595     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016596     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016597     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016598     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016599     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016600     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016601     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016602     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016603     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016604     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016605     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016606     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016607     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016608     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016609     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016610     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016611     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016612     0.00000009721     3.49      4.00      3.25
** -------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0016613     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016614     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016615     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016616     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016617     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016618     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016619     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016620     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016621     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016622     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016623     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016624     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016625     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016626     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016627     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016628     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016629     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016630     0.00000009721     3.49      4.00      3.25
   SRCPARAM L0016631     0.00000009721     3.49      4.00      3.25
** -------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0016632     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016633     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016634     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016635     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016636     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016637     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016638     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016639     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016640     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016641     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016642     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016643     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016644     0.0000001421      3.49      4.00      3.25
** -------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0016645     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016646     0.0000001421      3.49      4.00      3.25
   SRCPARAM L0016647     0.0000001421      3.49      4.00      3.25
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   SRCPARAM L0016648    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016649    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016650    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016651    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016652    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016653    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016654    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016655    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016656    0.0000001421    3.49    4.00    3.25
   SRCPARAM L0016657    0.0000001421    3.49    4.00    3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0016658    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016659    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016660    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016661    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016662    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016663    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016664    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016665    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016666    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016667    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016668    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016669    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016670    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016671    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016672    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016673    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016674    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016675    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016676    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016677    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016678    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016679    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016680    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016681    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016682    0.000002309     3.49    4.00    3.25
   SRCPARAM L0016683    0.000002309     3.49    4.00    3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0016684    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016685    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016686    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016687    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016688    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016689    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016690    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016691    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016692    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016693    0.000000131     3.49    4.00    3.25
   SRCPARAM L0016694    0.000000131     3.49    4.00    3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0016695    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016696    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016697    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016698    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016699    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016700    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016701    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016702    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016703    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016704    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016705    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016706    0.00000008795   3.49    4.00    3.25
   SRCPARAM L0016707    0.00000008795   3.49    4.00    3.25
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   SRCPARAM L0016708      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016709      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016710      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016711      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016712      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016713      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016714      0.00000008795      3.49      4.00      3.25
   SRCPARAM L0016715      0.00000008795      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0016716      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016717      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016718      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016719      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016720      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016721      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016722      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016723      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016724      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016725      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016726      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016727      0.00000006753      3.49      4.00      3.25
   SRCPARAM L0016728      0.00000006753      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0016729      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016730      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016731      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016732      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016733      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016734      0.00000009854      3.49      4.00      3.25
   SRCPARAM L0016735      0.00000009854      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0016736      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016737      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016738      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016739      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016740      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016741      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016742      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016743      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016744      0.0000001174       3.49      4.00      3.25
   SRCPARAM L0016745      0.0000001174       3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0016746      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016747      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016748      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016749      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016750      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016751      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016752      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016753      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016754      0.00000008779      3.49      4.00      3.25
   SRCPARAM L0016755      0.00000008779      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0016756      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016757      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016758      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016759      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016760      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016761      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016762      0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016763      0.00000007039      3.49      4.00      3.25
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   SRCPARAM L0016764     0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016765     0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016766     0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016767     0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016768     0.00000007039      3.49      4.00      3.25
   SRCPARAM L0016769     0.00000007039      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0014246     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014247     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014248     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014249     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014250     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014251     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014252     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014253     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014254     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014255     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014256     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014257     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014258     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014259     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014260     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014261     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014262     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014263     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014264     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014265     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014266     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014267     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014268     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014269     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014270     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014271     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014272     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014273     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014274     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014275     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014276     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014277     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014278     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014279     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014280     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014281     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014282     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014283     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014284     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014285     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014286     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014287     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014288     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014289     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014290     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014291     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014292     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014293     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014294     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014295     0.000001018        3.49      6.51      3.25
   SRCPARAM L0014296     0.000001018        3.49      6.51      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0014297     0.000002528        3.49      6.51      3.25
   SRCPARAM L0014298     0.000002528        3.49      6.51      3.25
   SRCPARAM L0014299     0.000002528        3.49      6.51      3.25
   SRCPARAM L0014300     0.000002528        3.49      6.51      3.25
   SRCPARAM L0014301     0.000002528        3.49      6.51      3.25
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SRCPARAM L0014302    0.000002528    3.49    6.51    3.25
SRCPARAM L0014303    0.000002528    3.49    6.51    3.25
SRCPARAM L0014304    0.000002528    3.49    6.51    3.25
SRCPARAM L0014305    0.000002528    3.49    6.51    3.25
SRCPARAM L0014306    0.000002528    3.49    6.51    3.25
SRCPARAM L0014307    0.000002528    3.49    6.51    3.25
SRCPARAM L0014308    0.000002528    3.49    6.51    3.25
SRCPARAM L0014309    0.000002528    3.49    6.51    3.25
SRCPARAM L0014310    0.000002528    3.49    6.51    3.25
SRCPARAM L0014311    0.000002528    3.49    6.51    3.25
SRCPARAM L0014312    0.000002528    3.49    6.51    3.25
SRCPARAM L0014313    0.000002528    3.49    6.51    3.25
SRCPARAM L0014314    0.000002528    3.49    6.51    3.25
SRCPARAM L0014315    0.000002528    3.49    6.51    3.25
SRCPARAM L0014316    0.000002528    3.49    6.51    3.25
SRCPARAM L0014317    0.000002528    3.49    6.51    3.25
SRCPARAM L0014318    0.000002528    3.49    6.51    3.25
SRCPARAM L0014319    0.000002528    3.49    6.51    3.25
SRCPARAM L0014320    0.000002528    3.49    6.51    3.25
SRCPARAM L0014321    0.000002528    3.49    6.51    3.25
SRCPARAM L0014322    0.000002528    3.49    6.51    3.25
SRCPARAM L0014323    0.000002528    3.49    6.51    3.25
SRCPARAM L0014324    0.000002528    3.49    6.51    3.25
SRCPARAM L0014325    0.000002528    3.49    6.51    3.25
SRCPARAM L0014326    0.000002528    3.49    6.51    3.25
SRCPARAM L0014327    0.000002528    3.49    6.51    3.25
SRCPARAM L0014328    0.000002528    3.49    6.51    3.25
SRCPARAM L0014329    0.000002528    3.49    6.51    3.25
SRCPARAM L0014330    0.000002528    3.49    6.51    3.25
SRCPARAM L0014331    0.000002528    3.49    6.51    3.25
SRCPARAM L0014332    0.000002528    3.49    6.51    3.25
SRCPARAM L0014333    0.000002528    3.49    6.51    3.25
SRCPARAM L0014334    0.000002528    3.49    6.51    3.25
SRCPARAM L0014335    0.000002528    3.49    6.51    3.25
SRCPARAM L0014336    0.000002528    3.49    6.51    3.25
SRCPARAM L0014337    0.000002528    3.49    6.51    3.25
SRCPARAM L0014338    0.000002528    3.49    6.51    3.25
SRCPARAM L0014339    0.000002528    3.49    6.51    3.25
SRCPARAM L0014340    0.000002528    3.49    6.51    3.25
SRCPARAM L0014341    0.000002528    3.49    6.51    3.25
SRCPARAM L0014342    0.000002528    3.49    6.51    3.25
SRCPARAM L0014343    0.000002528    3.49    6.51    3.25
SRCPARAM L0014344    0.000002528    3.49    6.51    3.25
SRCPARAM L0014345    0.000002528    3.49    6.51    3.25
SRCPARAM L0014346    0.000002528    3.49    6.51    3.25
SRCPARAM L0014347    0.000002528    3.49    6.51    3.25
SRCPARAM L0014348    0.000002528    3.49    6.51    3.25
SRCPARAM L0014349    0.000002528    3.49    6.51    3.25
SRCPARAM L0014350    0.000002528    3.49    6.51    3.25
SRCPARAM L0014351    0.000002528    3.49    6.51    3.25
SRCPARAM L0014352    0.000002528    3.49    6.51    3.25
SRCPARAM L0014353    0.000002528    3.49    6.51    3.25
SRCPARAM L0014354    0.000002528    3.49    6.51    3.25
SRCPARAM L0014355    0.000002528    3.49    6.51    3.25
SRCPARAM L0014356    0.000002528    3.49    6.51    3.25
SRCPARAM L0014357    0.000002528    3.49    6.51    3.25
SRCPARAM L0014358    0.000002528    3.49    6.51    3.25
SRCPARAM L0014359    0.000002528    3.49    6.51    3.25
SRCPARAM L0014360    0.000002528    3.49    6.51    3.25
SRCPARAM L0014361    0.000002528    3.49    6.51    3.25
SRCPARAM L0014362    0.000002528    3.49    6.51    3.25
SRCPARAM L0014363    0.000002528    3.49    6.51    3.25
SRCPARAM L0014364    0.000002528    3.49    6.51    3.25
SRCPARAM L0014365    0.000002528    3.49    6.51    3.25
SRCPARAM L0014366    0.000002528    3.49    6.51    3.25
SRCPARAM L0014367    0.000002528    3.49    6.51    3.25
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   SRCPARAM L0014368      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014369      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014370      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014371      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014372      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014373      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014374      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014375      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014376      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014377      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014378      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014379      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014380      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014381      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014382      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014383      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014384      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014385      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014386      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014387      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014388      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014389      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014390      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014391      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014392      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014393      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014394      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014395      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014396      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014397      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014398      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014399      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014400      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014401      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014402      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014403      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014404      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014405      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014406      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014407      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014408      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014409      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014410      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014411      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014412      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014413      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014414      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014415      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014416      0.000002528      3.49      6.51      3.25
   SRCPARAM L0014417      0.000002528      3.49      6.51      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0014418      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014419      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014420      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014421      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014422      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014423      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014424      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014425      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014426      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014427      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014428      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014429      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014430      0.0000006363      3.49      6.51      3.25
   SRCPARAM L0014431      0.0000006363      3.49      6.51      3.25
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   SRCPARAM L0014432      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014433      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014434      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014435      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014436      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014437      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014438      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014439      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014440      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014441      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014442      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014443      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014444      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014445      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014446      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014447      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014448      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014449      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014450      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014451      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014452      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014453      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014454      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014455      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014456      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014457      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014458      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014459      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014460      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014461      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014462      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014463      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014464      0.0000006363       3.49     6.51      3.25
   SRCPARAM L0014465      0.0000006363       3.49     6.51      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0014466      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014467      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014468      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014469      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014470      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014471      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014472      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014473      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014474      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014475      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014476      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014477      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014478      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014479      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014480      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014481      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014482      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014483      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014484      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014485      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014486      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014487      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014488      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014489      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014490      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014491      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014492      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014493      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014494      0.0000007585       3.49     6.51      3.25
   SRCPARAM L0014495      0.0000007585       3.49     6.51      3.25
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   SRCPARAM L0014496      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014497      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014498      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014499      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014500      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014501      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014502      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014503      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014504      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014505      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014506      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014507      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014508      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014509      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014510      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014511      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014512      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014513      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014514      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014515      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014516      0.0000007585      3.49      6.51      3.25
   SRCPARAM L0014517      0.0000007585      3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE24
   SRCPARAM L0014518      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014519      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014520      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014521      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014522      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014523      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014524      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014525      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014526      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014527      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014528      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014529      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014530      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014531      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014532      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014533      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014534      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014535      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014536      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014537      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014538      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014539      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014540      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014541      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014542      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014543      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014544      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014545      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014546      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014547      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014548      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014549      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014550      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014551      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014552      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014553      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014554      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014555      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014556      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014557      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014558      0.0000003806      3.49      6.51      3.25
   SRCPARAM L0014559      0.0000003806      3.49      6.51      3.25
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       SRCPARAM L0014560      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014561      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014562      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014563      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014564      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014565      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014566      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014567      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014568      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014569      0.0000003806      3.49      6.51      3.25
       SRCPARAM L0014570      0.0000003806      3.49      6.51      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE25
       SRCPARAM L0014571      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014572      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014573      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014574      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014575      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014576      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014577      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014578      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014579      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014580      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014581      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014582      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014583      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014584      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014585      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014586      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014587      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014588      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014589      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014590      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014591      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014592      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014593      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014594      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014595      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014596      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014597      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014598      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014599      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014600      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014601      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014602      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014603      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014604      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014605      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014606      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014607      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014608      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014609      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014610      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014611      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014612      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014613      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014614      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014615      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014616      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014617      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014618      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014619      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014620      0.0000007635      3.49      6.51      3.25
       SRCPARAM L0014621      0.0000007635      3.49      6.51      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE26
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SRCPARAM L0014625      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014626      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014627      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014628      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014629      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014630      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014637      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014638      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014684      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014687      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014700      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014701      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014702      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014703      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014715      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014718      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014719      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014735      0.0000001264      3.49      6.51      3.25
SRCPARAM L0014736      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014751      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014753      0.0000001264      3.49      6.51      3.25
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SRCPARAM L0014763    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014768    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014770    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014772    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014780    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014781    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014782    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014783    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014784    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014785    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014786    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014787    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014788    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014789    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014790    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014791    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014792    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014793    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014794    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014795    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014796    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014797    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014798    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014799    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014800    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014801    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014811    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014812    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014816    0.0000001264    3.49    6.51    3.25
SRCPARAM L0014817    0.0000001264    3.49    6.51    3.25
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SRCPARAM L0014819    0.0000001264    3.49    6.51    3.25
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   SRCPARAM L0014836      0.0000002533       3.49      6.51       3.25
   SRCPARAM L0014837      0.0000002533       3.49      6.51       3.25
   SRCPARAM L0014838      0.0000002533       3.49      6.51       3.25
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   SRCPARAM L0014843      0.0000002533       3.49      6.51       3.25
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   SRCPARAM L0014846      0.0000002533       3.49      6.51       3.25
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SRCPARAM L0014910      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014911      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014912      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014913      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014914      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014915      0.0000002533      3.49      6.51      3.25
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SRCPARAM L0014917      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014918      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014919      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014920      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014921      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014922      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014923      0.0000002533      3.49      6.51      3.25
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SRCPARAM L0014926      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014927      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014928      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014929      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014930      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014931      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014932      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014933      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014934      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014935      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014936      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014937      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014938      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014939      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014940      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014941      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014942      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014943      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014944      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014945      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014946      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014947      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014948      0.0000002533      3.49      6.51      3.25
SRCPARAM L0014949      0.0000002533      3.49      6.51      3.25
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SRCPARAM L0014953    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014954    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014955    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014956    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014957    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014958    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014959    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014960    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014961    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014962    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014963    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014964    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014965    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014966    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014967    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014968    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014969    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014970    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014971    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014972    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014973    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014974    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0014976    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014977    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014978    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014979    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014980    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014981    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014982    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014983    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014984    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014985    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014986    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014987    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014988    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014989    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014990    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014991    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014992    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014993    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014994    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014995    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014996    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014997    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014998    0.0000002533    3.49    6.51    3.25
SRCPARAM L0014999    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015000    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015001    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015002    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015003    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015004    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015005    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015006    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015007    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015008    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015009    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015010    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015011    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015012    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015013    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015014    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015015    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0015016    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015017    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015018    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015019    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015020    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015021    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015022    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015023    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015024    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015025    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015026    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015027    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015028    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015029    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015030    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015031    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015032    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015033    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015034    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015035    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015036    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015037    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015038    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015039    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015040    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015041    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015042    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015043    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015044    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015045    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015046    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015047    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015048    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015049    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015050    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015051    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015052    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0015054    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0015056    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015057    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015058    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015059    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015060    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015061    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015062    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015063    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015064    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015065    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015066    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015067    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015068    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015069    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015070    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015071    0.0000002533    3.49    6.51    3.25
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SRCPARAM L0015073    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015074    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015075    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015076    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015077    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015078    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015079    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015080    0.0000002533    3.49    6.51    3.25
SRCPARAM L0015081    0.0000002533    3.49    6.51    3.25
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   SRCPARAM L0015082    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015083    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015084    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015085    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015086    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015087    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015088    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015089    0.0000002533    3.49    6.51    3.25
   SRCPARAM L0015090    0.0000002533    3.49    6.51    3.25
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** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0015091    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015092    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015093    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015094    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015095    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015096    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015097    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015098    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015099    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015100    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015101    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015102    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015103    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015104    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015105    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015106    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015107    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015108    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015109    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015110    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015111    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015112    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015113    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015114    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015115    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015116    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015117    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015118    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015119    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015120    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015121    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015122    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015123    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015124    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015125    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015126    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015127    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015128    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015129    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015130    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015131    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015132    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015133    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015134    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015135    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015136    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015137    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015138    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015139    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015140    0.0000002155    3.49    6.51    3.25
   SRCPARAM L0015141    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015142    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015143    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015144    0.000002155     3.49    6.51    3.25
   SRCPARAM L0015145    0.000002155     3.49    6.51    3.25
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    SRCPARAM L0015146      0.000002155       3.49      6.51      3.25
    SRCPARAM L0015147      0.000002155       3.49      6.51      3.25
    SRCPARAM L0015148      0.000002155       3.49      6.51      3.25
    SRCPARAM L0015149      0.000002155       3.49      6.51      3.25
    SRCPARAM L0015150      0.000002155       3.49      6.51      3.25
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** LINE VOLUME Source ID = SLINE29
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    SRCPARAM L0015152      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015153      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015154      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015155      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015156      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015157      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015158      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015159      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015160      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015161      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015162      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015163      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015164      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015165      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015166      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015167      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015168      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015169      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015170      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015171      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015172      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015173      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015174      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015175      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015176      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015177      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015178      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015179      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015180      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015181      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015182      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015183      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015184      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015185      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015186      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015187      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015188      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015189      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015190      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015191      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015192      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015193      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015194      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015195      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015196      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015197      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015198      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015199      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015200      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015201      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015202      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015203      0.00000007561     3.49      6.51      3.25
    SRCPARAM L0015204      0.0000007561      3.49      6.51      3.25
    SRCPARAM L0015205      0.0000007561      3.49      6.51      3.25
    SRCPARAM L0015206      0.0000007561      3.49      6.51      3.25
    SRCPARAM L0015207      0.0000007561      3.49      6.51      3.25
    SRCPARAM L0015208      0.0000007561      3.49      6.51      3.25
    SRCPARAM L0015209      0.00000007561     3.49      6.51      3.25
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   SRCPARAM L0015211    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015212    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015213    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015214    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015215    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015216    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015217    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015218    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015219    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015220    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015221    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015222    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015223    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015224    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015225    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015226    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015227    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015228    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015229    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015230    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015231    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015232    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015233    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015234    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015235    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015236    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015237    0.00000007561    3.49    6.51    3.25
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   SRCPARAM L0015242    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015243    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015244    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015245    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015246    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015247    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015248    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015249    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015250    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015251    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015252    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015253    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015254    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015255    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015256    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015257    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015258    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015259    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015260    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015261    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015262    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015263    0.00000007561    3.49    6.51    3.25
   SRCPARAM L0015264    0.00000007561    3.49    6.51    3.25
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   SRCPARAM L0015267    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015268    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015269    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015270    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015271    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015272    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015273    0.000001459    3.49    4.00    3.25
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SRCPARAM L0015274    0.000001459    3.49    4.00    3.25
SRCPARAM L0015275    0.000001459    3.49    4.00    3.25
SRCPARAM L0015276    0.000001459    3.49    4.00    3.25
SRCPARAM L0015277    0.000001459    3.49    4.00    3.25
SRCPARAM L0015278    0.000001459    3.49    4.00    3.25
SRCPARAM L0015279    0.000001459    3.49    4.00    3.25
SRCPARAM L0015280    0.000001459    3.49    4.00    3.25
SRCPARAM L0015281    0.000001459    3.49    4.00    3.25
SRCPARAM L0015282    0.000001459    3.49    4.00    3.25
SRCPARAM L0015283    0.000001459    3.49    4.00    3.25
SRCPARAM L0015284    0.000001459    3.49    4.00    3.25
SRCPARAM L0015285    0.000001459    3.49    4.00    3.25
SRCPARAM L0015286    0.000001459    3.49    4.00    3.25
SRCPARAM L0015287    0.000001459    3.49    4.00    3.25
SRCPARAM L0015288    0.000001459    3.49    4.00    3.25
SRCPARAM L0015289    0.000001459    3.49    4.00    3.25
SRCPARAM L0015290    0.000001459    3.49    4.00    3.25
SRCPARAM L0015291    0.000001459    3.49    4.00    3.25
SRCPARAM L0015292    0.000001459    3.49    4.00    3.25
SRCPARAM L0015293    0.000001459    3.49    4.00    3.25
SRCPARAM L0015294    0.000001459    3.49    4.00    3.25
SRCPARAM L0015295    0.000001459    3.49    4.00    3.25
SRCPARAM L0015296    0.000001459    3.49    4.00    3.25
SRCPARAM L0015297    0.000001459    3.49    4.00    3.25
SRCPARAM L0015298    0.000001459    3.49    4.00    3.25
SRCPARAM L0015299    0.000001459    3.49    4.00    3.25
SRCPARAM L0015300    0.000001459    3.49    4.00    3.25
SRCPARAM L0015301    0.000001459    3.49    4.00    3.25
SRCPARAM L0015302    0.000001459    3.49    4.00    3.25
SRCPARAM L0015303    0.000001459    3.49    4.00    3.25
SRCPARAM L0015304    0.000001459    3.49    4.00    3.25
SRCPARAM L0015305    0.000001459    3.49    4.00    3.25
SRCPARAM L0015306    0.000001459    3.49    4.00    3.25
SRCPARAM L0015307    0.000001459    3.49    4.00    3.25
SRCPARAM L0015308    0.000001459    3.49    4.00    3.25
SRCPARAM L0015309    0.000001459    3.49    4.00    3.25
SRCPARAM L0015310    0.000001459    3.49    4.00    3.25
SRCPARAM L0015311    0.000001459    3.49    4.00    3.25
SRCPARAM L0015312    0.000001459    3.49    4.00    3.25
SRCPARAM L0015313    0.000001459    3.49    4.00    3.25
SRCPARAM L0015314    0.000001459    3.49    4.00    3.25
SRCPARAM L0015315    0.000001459    3.49    4.00    3.25
SRCPARAM L0015316    0.000001459    3.49    4.00    3.25
SRCPARAM L0015317    0.000001459    3.49    4.00    3.25
SRCPARAM L0015318    0.000001459    3.49    4.00    3.25
SRCPARAM L0015319    0.000001459    3.49    4.00    3.25
SRCPARAM L0015320    0.000001459    3.49    4.00    3.25
SRCPARAM L0015321    0.000001459    3.49    4.00    3.25
SRCPARAM L0015322    0.000001459    3.49    4.00    3.25
SRCPARAM L0015323    0.000001459    3.49    4.00    3.25
SRCPARAM L0015324    0.000001459    3.49    4.00    3.25
SRCPARAM L0015325    0.000001459    3.49    4.00    3.25
SRCPARAM L0015326    0.000001459    3.49    4.00    3.25
SRCPARAM L0015327    0.000001459    3.49    4.00    3.25
SRCPARAM L0015328    0.000001459    3.49    4.00    3.25
SRCPARAM L0015329    0.000001459    3.49    4.00    3.25
SRCPARAM L0015330    0.000001459    3.49    4.00    3.25
SRCPARAM L0015331    0.000001459    3.49    4.00    3.25
SRCPARAM L0015332    0.000001459    3.49    4.00    3.25
SRCPARAM L0015333    0.000001459    3.49    4.00    3.25
SRCPARAM L0015334    0.000001459    3.49    4.00    3.25
SRCPARAM L0015335    0.000001459    3.49    4.00    3.25
SRCPARAM L0015336    0.000001459    3.49    4.00    3.25
SRCPARAM L0015337    0.000001459    3.49    4.00    3.25
SRCPARAM L0015338    0.000001459    3.49    4.00    3.25
SRCPARAM L0015339    0.000001459    3.49    4.00    3.25
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SRCPARAM L0015340    0.000001459    3.49    4.00    3.25
SRCPARAM L0015341    0.000001459    3.49    4.00    3.25
SRCPARAM L0015342    0.000001459    3.49    4.00    3.25
SRCPARAM L0015343    0.000001459    3.49    4.00    3.25
SRCPARAM L0015344    0.000001459    3.49    4.00    3.25
SRCPARAM L0015345    0.000001459    3.49    4.00    3.25
SRCPARAM L0015346    0.000001459    3.49    4.00    3.25
SRCPARAM L0015347    0.000001459    3.49    4.00    3.25
SRCPARAM L0015348    0.000001459    3.49    4.00    3.25
SRCPARAM L0015349    0.000001459    3.49    4.00    3.25
SRCPARAM L0015350    0.000001459    3.49    4.00    3.25
SRCPARAM L0015351    0.000001459    3.49    4.00    3.25
SRCPARAM L0015352    0.000001459    3.49    4.00    3.25
SRCPARAM L0015353    0.000001459    3.49    4.00    3.25
SRCPARAM L0015354    0.000001459    3.49    4.00    3.25
SRCPARAM L0015355    0.000001459    3.49    4.00    3.25
SRCPARAM L0015356    0.000001459    3.49    4.00    3.25
SRCPARAM L0015357    0.000001459    3.49    4.00    3.25
SRCPARAM L0015358    0.000001459    3.49    4.00    3.25
SRCPARAM L0015359    0.000001459    3.49    4.00    3.25
SRCPARAM L0015360    0.000001459    3.49    4.00    3.25
SRCPARAM L0015361    0.000001459    3.49    4.00    3.25
SRCPARAM L0015362    0.000001459    3.49    4.00    3.25
SRCPARAM L0015363    0.000001459    3.49    4.00    3.25
SRCPARAM L0015364    0.000001459    3.49    4.00    3.25
SRCPARAM L0015365    0.000001459    3.49    4.00    3.25
SRCPARAM L0015366    0.000001459    3.49    4.00    3.25
SRCPARAM L0015367    0.000001459    3.49    4.00    3.25
SRCPARAM L0015368    0.000001459    3.49    4.00    3.25
SRCPARAM L0015369    0.000001459    3.49    4.00    3.25
SRCPARAM L0015370    0.000001459    3.49    4.00    3.25
SRCPARAM L0015371    0.000001459    3.49    4.00    3.25
SRCPARAM L0015372    0.000001459    3.49    4.00    3.25
SRCPARAM L0015373    0.000001459    3.49    4.00    3.25
SRCPARAM L0015374    0.000001459    3.49    4.00    3.25
SRCPARAM L0015375    0.000001459    3.49    4.00    3.25
SRCPARAM L0015376    0.000001459    3.49    4.00    3.25
SRCPARAM L0015377    0.000001459    3.49    4.00    3.25
SRCPARAM L0015378    0.000001459    3.49    4.00    3.25
SRCPARAM L0015379    0.000001459    3.49    4.00    3.25
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SRCPARAM L0015382    0.000001459    3.49    4.00    3.25
SRCPARAM L0015383    0.000001459    3.49    4.00    3.25
SRCPARAM L0015384    0.000001459    3.49    4.00    3.25
SRCPARAM L0015385    0.000001459    3.49    4.00    3.25
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SRCPARAM L0015387    0.000001459    3.49    4.00    3.25
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SRCPARAM L0015390    0.000001459    3.49    4.00    3.25
SRCPARAM L0015391    0.000001459    3.49    4.00    3.25
SRCPARAM L0015392    0.000001459    3.49    4.00    3.25
SRCPARAM L0015393    0.000001459    3.49    4.00    3.25
SRCPARAM L0015394    0.000001459    3.49    4.00    3.25
SRCPARAM L0015395    0.000001459    3.49    4.00    3.25
SRCPARAM L0015396    0.000001459    3.49    4.00    3.25
SRCPARAM L0015397    0.000001459    3.49    4.00    3.25
SRCPARAM L0015398    0.000001459    3.49    4.00    3.25
SRCPARAM L0015399    0.000001459    3.49    4.00    3.25
SRCPARAM L0015400    0.000001459    3.49    4.00    3.25
SRCPARAM L0015401    0.000001459    3.49    4.00    3.25
SRCPARAM L0015402    0.000001459    3.49    4.00    3.25
SRCPARAM L0015403    0.000001459    3.49    4.00    3.25
SRCPARAM L0015404    0.000001459    3.49    4.00    3.25
SRCPARAM L0015405    0.000001459    3.49    4.00    3.25
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   SRCPARAM L0015406    0.000001459    3.49    4.00    3.25
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   SRCPARAM L0015409    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015410    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015411    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015412    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015413    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015414    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015415    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015416    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015417    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015418    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015419    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015420    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015421    0.000001459    3.49    4.00    3.25
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   SRCPARAM L0015423    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015424    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015425    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015426    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015427    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015428    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015429    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015430    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015431    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015432    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015433    0.000001459    3.49    4.00    3.25
   SRCPARAM L0015434    0.000001459    3.49    4.00    3.25
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** LINE VOLUME Source ID = SLINE31
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   SRCPARAM L0015436    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015437    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015438    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015439    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015440    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015441    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015442    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015443    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015444    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015445    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015446    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015447    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015448    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015449    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015450    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015451    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015452    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015453    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015454    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015455    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015456    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015457    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015458    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015459    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015460    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015461    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015462    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015463    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015464    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015465    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015466    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015467    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015468    0.000001869    3.49    4.00    3.25
   SRCPARAM L0015469    0.000001869    3.49    4.00    3.25
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SRCPARAM L0015472    0.000001869    3.49    4.00    3.25
SRCPARAM L0015473    0.000001869    3.49    4.00    3.25
SRCPARAM L0015474    0.000001869    3.49    4.00    3.25
SRCPARAM L0015475    0.000001869    3.49    4.00    3.25
SRCPARAM L0015476    0.000001869    3.49    4.00    3.25
SRCPARAM L0015477    0.000001869    3.49    4.00    3.25
SRCPARAM L0015478    0.000001869    3.49    4.00    3.25
SRCPARAM L0015479    0.000001869    3.49    4.00    3.25
SRCPARAM L0015480    0.000001869    3.49    4.00    3.25
SRCPARAM L0015481    0.000001869    3.49    4.00    3.25
SRCPARAM L0015482    0.000001869    3.49    4.00    3.25
SRCPARAM L0015483    0.000001869    3.49    4.00    3.25
SRCPARAM L0015484    0.000001869    3.49    4.00    3.25
SRCPARAM L0015485    0.000001869    3.49    4.00    3.25
SRCPARAM L0015486    0.000001869    3.49    4.00    3.25
SRCPARAM L0015487    0.000001869    3.49    4.00    3.25
SRCPARAM L0015488    0.000001869    3.49    4.00    3.25
SRCPARAM L0015489    0.000001869    3.49    4.00    3.25
SRCPARAM L0015490    0.000001869    3.49    4.00    3.25
SRCPARAM L0015491    0.000001869    3.49    4.00    3.25
SRCPARAM L0015492    0.000001869    3.49    4.00    3.25
SRCPARAM L0015493    0.000001869    3.49    4.00    3.25
SRCPARAM L0015494    0.000001869    3.49    4.00    3.25
SRCPARAM L0015495    0.000001869    3.49    4.00    3.25
SRCPARAM L0015496    0.000001869    3.49    4.00    3.25
SRCPARAM L0015497    0.000001869    3.49    4.00    3.25
SRCPARAM L0015498    0.000001869    3.49    4.00    3.25
SRCPARAM L0015499    0.000001869    3.49    4.00    3.25
SRCPARAM L0015500    0.000001869    3.49    4.00    3.25
SRCPARAM L0015501    0.000001869    3.49    4.00    3.25
SRCPARAM L0015502    0.000001869    3.49    4.00    3.25
SRCPARAM L0015503    0.000001869    3.49    4.00    3.25
SRCPARAM L0015504    0.000001869    3.49    4.00    3.25
SRCPARAM L0015505    0.000001869    3.49    4.00    3.25
SRCPARAM L0015506    0.000001869    3.49    4.00    3.25
SRCPARAM L0015507    0.000001869    3.49    4.00    3.25
SRCPARAM L0015508    0.000001869    3.49    4.00    3.25
SRCPARAM L0015509    0.000001869    3.49    4.00    3.25
SRCPARAM L0015510    0.000001869    3.49    4.00    3.25
SRCPARAM L0015511    0.000001869    3.49    4.00    3.25
SRCPARAM L0015512    0.000001869    3.49    4.00    3.25
SRCPARAM L0015513    0.000001869    3.49    4.00    3.25
SRCPARAM L0015514    0.000001869    3.49    4.00    3.25
SRCPARAM L0015515    0.000001869    3.49    4.00    3.25
SRCPARAM L0015516    0.000001869    3.49    4.00    3.25
SRCPARAM L0015517    0.000001869    3.49    4.00    3.25
SRCPARAM L0015518    0.000001869    3.49    4.00    3.25
SRCPARAM L0015519    0.000001869    3.49    4.00    3.25
SRCPARAM L0015520    0.000001869    3.49    4.00    3.25
SRCPARAM L0015521    0.000001869    3.49    4.00    3.25
SRCPARAM L0015522    0.000001869    3.49    4.00    3.25
SRCPARAM L0015523    0.000001869    3.49    4.00    3.25
SRCPARAM L0015524    0.000001869    3.49    4.00    3.25
SRCPARAM L0015525    0.000001869    3.49    4.00    3.25
SRCPARAM L0015526    0.000001869    3.49    4.00    3.25
SRCPARAM L0015527    0.000001869    3.49    4.00    3.25
SRCPARAM L0015528    0.000001869    3.49    4.00    3.25
SRCPARAM L0015529    0.000001869    3.49    4.00    3.25
SRCPARAM L0015530    0.000001869    3.49    4.00    3.25
SRCPARAM L0015531    0.000001869    3.49    4.00    3.25
SRCPARAM L0015532    0.000001869    3.49    4.00    3.25
SRCPARAM L0015533    0.000001869    3.49    4.00    3.25
SRCPARAM L0015534    0.000001869    3.49    4.00    3.25
SRCPARAM L0015535    0.000001869    3.49    4.00    3.25
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SRCPARAM L0015536      0.000001869      3.49      4.00      3.25
SRCPARAM L0015537      0.000001869      3.49      4.00      3.25
SRCPARAM L0015538      0.000001869      3.49      4.00      3.25
SRCPARAM L0015539      0.000001869      3.49      4.00      3.25
SRCPARAM L0015540      0.000001869      3.49      4.00      3.25
SRCPARAM L0015541      0.000001869      3.49      4.00      3.25
SRCPARAM L0015542      0.000001869      3.49      4.00      3.25
SRCPARAM L0015543      0.000001869      3.49      4.00      3.25
SRCPARAM L0015544      0.000001869      3.49      4.00      3.25
SRCPARAM L0015545      0.000001869      3.49      4.00      3.25
SRCPARAM L0015546      0.000001869      3.49      4.00      3.25
SRCPARAM L0015547      0.000001869      3.49      4.00      3.25
SRCPARAM L0015548      0.000001869      3.49      4.00      3.25
SRCPARAM L0015549      0.000001869      3.49      4.00      3.25
SRCPARAM L0015550      0.000001869      3.49      4.00      3.25
SRCPARAM L0015551      0.000001869      3.49      4.00      3.25
SRCPARAM L0015552      0.000001869      3.49      4.00      3.25
SRCPARAM L0015553      0.000001869      3.49      4.00      3.25
SRCPARAM L0015554      0.000001869      3.49      4.00      3.25
SRCPARAM L0015555      0.000001869      3.49      4.00      3.25
SRCPARAM L0015556      0.000001869      3.49      4.00      3.25
SRCPARAM L0015557      0.000001869      3.49      4.00      3.25
SRCPARAM L0015558      0.000001869      3.49      4.00      3.25
SRCPARAM L0015559      0.000001869      3.49      4.00      3.25
SRCPARAM L0015560      0.000001869      3.49      4.00      3.25
SRCPARAM L0015561      0.000001869      3.49      4.00      3.25
SRCPARAM L0015562      0.000001869      3.49      4.00      3.25
SRCPARAM L0015563      0.000001869      3.49      4.00      3.25
SRCPARAM L0015564      0.000001869      3.49      4.00      3.25
SRCPARAM L0015565      0.000001869      3.49      4.00      3.25
SRCPARAM L0015566      0.000001869      3.49      4.00      3.25
SRCPARAM L0015567      0.000001869      3.49      4.00      3.25
SRCPARAM L0015568      0.000001869      3.49      4.00      3.25
SRCPARAM L0015569      0.000001869      3.49      4.00      3.25
SRCPARAM L0015570      0.000001869      3.49      4.00      3.25
SRCPARAM L0015571      0.000001869      3.49      4.00      3.25
SRCPARAM L0015572      0.000001869      3.49      4.00      3.25
SRCPARAM L0015573      0.000001869      3.49      4.00      3.25
SRCPARAM L0015574      0.000001869      3.49      4.00      3.25
SRCPARAM L0015575      0.000001869      3.49      4.00      3.25
SRCPARAM L0015576      0.000001869      3.49      4.00      3.25
SRCPARAM L0015577      0.000001869      3.49      4.00      3.25
SRCPARAM L0015578      0.000001869      3.49      4.00      3.25
SRCPARAM L0015579      0.000001869      3.49      4.00      3.25
SRCPARAM L0015580      0.000001869      3.49      4.00      3.25
SRCPARAM L0015581      0.000001869      3.49      4.00      3.25
SRCPARAM L0015582      0.000001869      3.49      4.00      3.25
SRCPARAM L0015583      0.000001869      3.49      4.00      3.25
SRCPARAM L0015584      0.000001869      3.49      4.00      3.25
SRCPARAM L0015585      0.000001869      3.49      4.00      3.25
SRCPARAM L0015586      0.000001869      3.49      4.00      3.25
SRCPARAM L0015587      0.000001869      3.49      4.00      3.25
SRCPARAM L0015588      0.000001869      3.49      4.00      3.25
SRCPARAM L0015589      0.000001869      3.49      4.00      3.25
SRCPARAM L0015590      0.000001869      3.49      4.00      3.25
SRCPARAM L0015591      0.000001869      3.49      4.00      3.25
SRCPARAM L0015592      0.000001869      3.49      4.00      3.25
SRCPARAM L0015593      0.000001869      3.49      4.00      3.25
SRCPARAM L0015594      0.000001869      3.49      4.00      3.25
SRCPARAM L0015595      0.000001869      3.49      4.00      3.25
SRCPARAM L0015596      0.000001869      3.49      4.00      3.25
SRCPARAM L0015597      0.000001869      3.49      4.00      3.25
SRCPARAM L0015598      0.000001869      3.49      4.00      3.25
SRCPARAM L0015599      0.000001869      3.49      4.00      3.25
SRCPARAM L0015600      0.000001869      3.49      4.00      3.25
SRCPARAM L0015601      0.000001869      3.49      4.00      3.25
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   SRCPARAM L0015602     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015603     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015604     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015605     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015606     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015607     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015608     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015609     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015610     0.000001869      3.49       4.00       3.25
   SRCPARAM L0015611     0.000001869      3.49       4.00       3.25
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** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0015612     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015613     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015614     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015615     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015616     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015617     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015618     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015619     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015620     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015621     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015622     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015623     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015624     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015625     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015626     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015627     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015628     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015629     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015630     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015631     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015632     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015633     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015634     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015635     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015636     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015637     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015638     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015639     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015640     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015641     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015642     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015643     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015644     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015645     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015646     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015647     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015648     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015649     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015650     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015651     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015652     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015653     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015654     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015655     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015656     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015657     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015658     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015659     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015660     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015661     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015662     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015663     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015664     0.0000007994     3.49       4.00       3.25
   SRCPARAM L0015665     0.0000007994     3.49       4.00       3.25
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   SRCPARAM L0015666      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015667      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015668      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015669      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015670      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015671      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015672      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015673      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015674      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015675      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015676      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015677      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015678      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015679      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015680      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015681      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015682      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015683      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015684      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015685      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015686      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015687      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015688      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015689      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015690      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015691      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015692      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015693      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015694      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015695      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015696      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015697      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015698      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015699      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015700      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015701      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015702      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015703      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015704      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015705      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015706      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015707      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015708      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015709      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015710      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015711      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015712      0.0000007994      3.49      4.00      3.25
   SRCPARAM L0015713      0.0000007994      3.49      4.00      3.25
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0015714      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015715      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015716      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015717      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015718      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015719      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015720      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015721      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015722      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015723      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015724      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015725      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015726      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015727      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015728      0.00000006859      3.49      4.00      3.25
   SRCPARAM L0015729      0.00000006859      3.49      4.00      3.25
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   SRCPARAM L0015730     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015731     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015732     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015733     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015734     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015735     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015736     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015737     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015738     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015739     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015740     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015741     0.00000006859     3.49     4.00     3.25
   SRCPARAM L0015742     0.00000006859     3.49     4.00     3.25
** ------------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0015743     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015744     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015745     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015746     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015747     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015748     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015749     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015750     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015751     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015752     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015753     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015754     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015755     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015756     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015757     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015758     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015759     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015760     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015761     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015762     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015763     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015764     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015765     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015766     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015767     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015768     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015769     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015770     0.00000008441     3.49     4.00     3.25
   SRCPARAM L0015771     0.00000008441     3.49     4.00     3.25
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** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0015772     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015773     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015774     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015775     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015776     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015777     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015778     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015779     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015780     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015781     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015782     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015783     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015784     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015785     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015786     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015787     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015788     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015789     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015790     0.00000008671     3.49     4.00     3.25
   SRCPARAM L0015791     0.00000008671     3.49     4.00     3.25
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    SRCPARAM L0015792      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015793      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015794      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015795      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015796      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015797      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015798      0.00000008671      3.49      4.00      3.25
    SRCPARAM L0015799      0.00000008671      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
    SRCPARAM L0015800      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015801      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015802      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015803      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015804      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015805      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015806      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015807      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015808      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015809      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015810      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015811      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015812      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015813      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015814      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015815      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015816      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015817      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015818      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015819      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015820      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015821      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015822      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015823      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015824      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015825      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015826      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015827      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015828      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015829      0.00000008648      3.49      4.00      3.25
    SRCPARAM L0015830      0.00000008648      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
    SRCPARAM L0015831      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015832      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015833      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015834      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015835      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015836      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015837      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015838      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015839      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015840      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015841      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015842      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015843      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015844      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015845      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015846      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015847      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015848      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015849      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015850      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015851      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015852      0.00000008606      3.49      4.00      3.25
    SRCPARAM L0015853      0.00000008606      3.49      4.00      3.25
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          SRCPARAM L0015854      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015855      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015856      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015857      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015858      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015859      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015860      0.00000008606      3.49      4.00      3.25
          SRCPARAM L0015861      0.00000008606      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE38
          SRCPARAM L0015862      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015863      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015864      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015865      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015866      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015867      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015868      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015869      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015870      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015871      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015872      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015873      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015874      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015875      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015876      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015877      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015878      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015879      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015880      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015881      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015882      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015883      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015884      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015885      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015886      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015887      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015888      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015889      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015890      0.00000006633      3.49      4.00      3.25
          SRCPARAM L0015891      0.00000006633      3.49      4.00      3.25
**  ----------------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE39
          SRCPARAM L0015892      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015893      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015894      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015895      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015896      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015897      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015898      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015899      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015900      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015901      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015902      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015903      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015904      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015905      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015906      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015907      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015908      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015909      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015910      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015911      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015912      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015913      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015914      0.00000008635      3.49      4.00      3.25
          SRCPARAM L0015915      0.00000008635      3.49      4.00      3.25
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     SRCPARAM L0015916      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015917      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015918      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015919      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015920      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015921      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015922      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015923      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015924      0.00000008635      3.49      4.00      3.25
     SRCPARAM L0015925      0.00000008635      3.49      4.00      3.25
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE40
     SRCPARAM L0015926      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015927      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015928      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015929      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015930      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015931      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015932      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015933      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015934      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015935      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015936      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015937      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015938      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015939      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015940      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015941      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015942      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015943      0.00000004111      3.49      4.00      3.25
     SRCPARAM L0015944      0.00000004111      3.49      4.00      3.25
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE41
     SRCPARAM L0015945      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015946      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015947      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015948      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015949      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015950      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015951      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015952      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015953      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015954      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015955      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015956      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015957      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015958      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015959      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015960      0.00000003202      3.49      4.00      3.25
     SRCPARAM L0015961      0.00000003202      3.49      4.00      3.25
**  ----------------------------------------------------------------
**  LINE VOLUME Source ID = SLINE42
     SRCPARAM L0015962      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015963      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015964      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015965      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015966      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015967      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015968      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015969      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015970      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015971      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015972      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015973      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015974      0.00000005276      3.49      4.00      3.25
     SRCPARAM L0015975      0.00000005276      3.49      4.00      3.25
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   SRCPARAM L0015976      0.00000005276      3.49      4.00      3.25
   SRCPARAM L0015977      0.00000005276      3.49      4.00      3.25
   SRCPARAM L0015978      0.00000005276      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE43
   SRCPARAM L0015979      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015980      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015981      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015982      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015983      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015984      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015985      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015986      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015987      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015988      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015989      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015990      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015991      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015992      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015993      0.00000004023      3.49      4.00      3.25
   SRCPARAM L0015994      0.00000004023      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE44
   SRCPARAM L0015995      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0015996      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0015997      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0015998      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0015999      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016000      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016001      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016002      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016003      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016004      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016005      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016006      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016007      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016008      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016009      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016010      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016011      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016012      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016013      0.00000004448      3.49      4.00      3.25
   SRCPARAM L0016014      0.00000004448      3.49      4.00      3.25
** ----------------------------------------------------------------------
   SRCPARAM VOL1          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL2          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL3          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL4          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL5          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL6          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL7          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL8          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL9          0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL10         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL11         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL12         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL13         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL14         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL15         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL16         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL17         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL18         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL19         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL20         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL21         0.0000201919      5.000    12.844     1.400
   SRCPARAM VOL22         0.0000201919      5.000    12.844     1.400
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SRCPARAM VOL23        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL24        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL25        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL26        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL27        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL28        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL29        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL30        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL31        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL32        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL33        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL34        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL35        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL36        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL37        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL38        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL39        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL40        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL41        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL42        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL43        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL44        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL45        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL46        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL47        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL48        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL49        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL50        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL51        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL52        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL53        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL54        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL55        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL56        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL57        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL58        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL59        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL60        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL61        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL62        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL63        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL64        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL65        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL66        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL67        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL68        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL69        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL70        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL71        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL72        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL73        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL74        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL75        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL76        0.0000201919    5.000    12.844    1.400
SRCPARAM VOL77        0.0000201919    5.000    12.844    1.400
SRCPARAM STCK1        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK2        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK3        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK4        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK5        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK6        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK7        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK8        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK9        0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM STCK10       0.0004642028    3.550   728.550   54.78     0.13
SRCPARAM VOL78        0.0000201919    5.000    12.844    1.400
```

```
   SRCPARAM STCK11          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK12          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK13          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK14          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK15          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK16          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK17          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK18          0.0004642028      3.550    728.550      54.78      0.13
   SRCPARAM STCK19          0.0004642028      3.550    728.550      54.78      0.13
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Equipment"
** WeekDays:
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL1          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL1          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL2          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL2          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL3          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL3          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCFACT VOL4           HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT VOL4          HRDOW 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT VOL4          HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
```

```
      EMISFACT STCK19        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
      SRCGROUP ALL
SO FINISHED
**
******************************************
** AERMOD Receptor Pathway
******************************************
**
**
RE STARTING
    INCLUDED "14064-16 Ops HRA Mit.rou"
RE FINISHED
**
******************************************
** AERMOD Meteorology Pathway
******************************************
**
**
ME STARTING
    SURFFILE KRAL_V9_ADJU\KRAL_v9.SFC
    PROFFILE KRAL_V9_ADJU\KRAL_v9.PFL
    SURFDATA 3171 2012
    UAIRDATA 3190 2012
    PROFBASE 245.0 METERS
ME FINISHED
**
******************************************
** AERMOD Output Pathway
******************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
    PLOTFILE PERIOD ALL "14064-16 OPS HRA MIT.AD\PE00GALL.PLT" 31
    SUMMFILE "14064-16 Ops HRA Mit.sum"
OU FINISHED


   *** Message Summary For AERMOD Model Setup ***

    --------- Summary of Total Messages --------

 A Total of              0 Fatal Error Message(s)
 A Total of             21 Warning Message(s)
 A Total of              0 Informational Message(s)


      ******** FATAL ERROR MESSAGES ********
                *** NONE ***


      ********   WARNING MESSAGES   ********
 SO W320     5532        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5533        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5534        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5535        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5536        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5537        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5538        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5539        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5540        PPRDOW: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5541        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5543        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5544        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5545        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
 SO W320     5546        PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
```

```
SO W320    5547         PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5548         PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5549         PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5550         PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
SO W320    5551         PPARM: Input Parameter May Be Out-of-Range for Parameter          VS
ME W186    7151         MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used        0.50
ME W187    7151         MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


    ***********************************
    *** SETUP Finishes Successfully ***
    ***********************************


FF *** AERMOD - VERSION 22112  ***    *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***        16:21:25


                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                       ***     MODEL SETUP OPTIONS SUMMARY      ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -


** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for  2325 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: DPM

**Model Calculates PERIOD Averages Only

**This Run Includes:   2325 Source(s);       1 Source Group(s); and     258 Receptor(s)

                with:     19 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   2306 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date:  16216

**Output Options Selected:
```

```
                Model Outputs Tables of PERIOD Averages by Receptor
                Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
                Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

  **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                  m for Missing Hours
                                                                  b for Both Calm and Missing
                                                                  Hours


  **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    245.00 ;  Decay Coef. =
  0.000     ;  Rot. Angle =      0.0
                  Emission Units = GRAMS/SEC                              ;  Emission Rate
                  Unit Factor =    0.10000E+07
                  Output Units   = MICROGRAMS/M**3

  **Approximate Storage Requirements of Model =       7.5 MB of RAM.


  **Input Runstream File:
  aermod.inp
  **Output Print File:
  aermod.out

  **Detailed Error/Message File:   14064-16 Ops HRA
  Mit.err
  **File for Summary of Results:   14064-16 Ops HRA
  Mit.sum
  PP *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
  Campus\14064 Ops\140 ***        11/01/23
   *** AERMET - VERSION  16216 ***
   ***                                                              ***       16:21:25

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  *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*



                                    *** POINT SOURCE DATA ***

               NUMBER EMISSION RATE                  BASE      STACK     STACK     STACK
              STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE     PART.  (GRAMS/SEC)    X       Y      ELEV.    HEIGHT    TEMP.    EXIT VEL.
   DIAMETER  EXISTS SOURCE HOR   SCALAR
    ID        CATS.                (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)
    (METERS)                      VARY BY
  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  - - - - - - - - - - - - - - - -

  STCK1        0   0.46420E-03  471144.9 3752388.1   507.9    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK2        0   0.46420E-03  471301.6 3752383.9   512.7    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK3        0   0.46420E-03  471622.8 3752382.9   513.8    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK4        0   0.46420E-03  471805.2 3752371.9   508.9    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK5        0   0.46420E-03  471848.1 3752202.6   519.2    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK6        0   0.46420E-03  471211.8 3752185.0   517.6    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK7        0   0.46420E-03  471149.5 3751819.2   517.9    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK8        0   0.46420E-03  471850.4 3751834.5   537.8    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK9        0   0.46420E-03  471313.0 3751462.9   532.1    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
  STCK10       0   0.46420E-03  471494.1 3751465.2   533.8    3.55    728.55    54.78
  0.13   NO     YES   NO  HRDOW7
```

```
STCK11           0  0.46420E-03  471017.6 3752268.8   506.2     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK12           0  0.46420E-03  470997.9 3752063.9   513.4     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK13           0  0.46420E-03  470933.4 3751828.2   517.4     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK14           0  0.46420E-03  470946.0 3751678.1   516.9     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK15           0  0.46420E-03  471164.9 3751464.8   525.8     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK16           0  0.46420E-03  471639.2 3751478.8   530.0     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK17           0  0.46420E-03  471404.8 3752382.4   509.3     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK18           0  0.46420E-03  471483.4 3752385.2   517.0     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
STCK19           0  0.46420E-03  471954.9 3752378.2   513.3     3.55    728.55    54.78
0.13    NO     YES   NO   HRDOW7
```

🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
***   ***   16:21:25

                    PAGE   3
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

```
              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY       SZ
  SOURCE  SCALAR VARY
    ID        CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)             BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0016311         0  0.16320E-05  471219.4 3751821.4   518.3     3.49     4.00      3.25
YES
L0016312         0  0.16320E-05  471228.0 3751821.5   518.9     3.49     4.00      3.25
YES
L0016313         0  0.16320E-05  471236.6 3751821.6   519.6     3.49     4.00      3.25
YES
L0016314         0  0.16320E-05  471245.2 3751821.7   520.2     3.49     4.00      3.25
YES
L0016315         0  0.16320E-05  471253.8 3751821.7   521.1     3.49     4.00      3.25
YES
L0016316         0  0.16320E-05  471262.4 3751821.8   522.3     3.49     4.00      3.25
YES
L0016317         0  0.16320E-05  471271.0 3751821.9   523.4     3.49     4.00      3.25
YES
L0016318         0  0.16320E-05  471279.5 3751822.0   524.6     3.49     4.00      3.25
YES
L0016319         0  0.16320E-05  471288.1 3751822.1   524.5     3.49     4.00      3.25
YES
L0016320         0  0.16320E-05  471296.7 3751822.2   524.3     3.49     4.00      3.25
YES
L0016321         0  0.16320E-05  471305.3 3751822.3   524.1     3.49     4.00      3.25
YES
L0016322         0  0.16320E-05  471313.9 3751822.3   524.0     3.49     4.00      3.25
YES
L0016323         0  0.16320E-05  471322.5 3751822.4   523.9     3.49     4.00      3.25
YES
L0016324         0  0.16320E-05  471331.1 3751822.5   523.9     3.49     4.00      3.25
YES
```

```
L0016325      0   0.16320E-05  471339.7 3751822.6  523.8    3.49    4.00    3.25
YES
L0016326      0   0.16320E-05  471348.3 3751822.7  523.9    3.49    4.00    3.25
YES
L0016327      0   0.16320E-05  471356.8 3751822.8  523.9    3.49    4.00    3.25
YES
L0016328      0   0.16320E-05  471365.4 3751822.9  524.0    3.49    4.00    3.25
YES
L0016329      0   0.16320E-05  471374.0 3751822.9  524.0    3.49    4.00    3.25
YES
L0016330      0   0.16320E-05  471382.6 3751823.0  524.1    3.49    4.00    3.25
YES
L0016331      0   0.16320E-05  471391.2 3751823.1  524.2    3.49    4.00    3.25
YES
L0016332      0   0.16320E-05  471399.8 3751823.2  524.2    3.49    4.00    3.25
YES
L0016333      0   0.16320E-05  471408.4 3751823.3  524.7    3.49    4.00    3.25
YES
L0016334      0   0.16320E-05  471417.0 3751823.4  525.3    3.49    4.00    3.25
YES
L0016335      0   0.16320E-05  471425.6 3751823.4  525.8    3.49    4.00    3.25
YES
L0016336      0   0.16320E-05  471434.2 3751823.5  526.3    3.49    4.00    3.25
YES
L0016337      0   0.16320E-05  471442.7 3751823.6  526.9    3.49    4.00    3.25
YES
L0016338      0   0.16320E-05  471451.3 3751823.7  527.4    3.49    4.00    3.25
YES
L0016339      0   0.16320E-05  471459.9 3751823.8  528.0    3.49    4.00    3.25
YES
L0016340      0   0.16320E-05  471468.5 3751823.9  528.4    3.49    4.00    3.25
YES
L0016341      0   0.16320E-05  471477.1 3751824.0  528.7    3.49    4.00    3.25
YES
L0016342      0   0.16320E-05  471485.7 3751824.0  529.1    3.49    4.00    3.25
YES
L0016343      0   0.16320E-05  471494.3 3751824.1  529.5    3.49    4.00    3.25
YES
L0016344      0   0.16320E-05  471502.9 3751824.2  530.0    3.49    4.00    3.25
YES
L0016345      0   0.16320E-05  471511.5 3751824.3  530.5    3.49    4.00    3.25
YES
L0016346      0   0.16320E-05  471520.0 3751824.4  531.0    3.49    4.00    3.25
YES
L0016347      0   0.16320E-05  471528.6 3751824.5  531.7    3.49    4.00    3.25
YES
L0016348      0   0.16320E-05  471537.2 3751824.5  532.3    3.49    4.00    3.25
YES
L0016349      0   0.16320E-05  471545.8 3751824.6  533.0    3.49    4.00    3.25
YES
L0016350      0   0.16320E-05  471554.4 3751824.7  533.5    3.49    4.00    3.25
YES
```

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ

SOURCE ID (METERS)	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0016351 YES	0	0.16320E-05	471563.0	3751824.8	533.8	3.49	4.00	3.25
L0016352 YES	0	0.16320E-05	471571.6	3751824.9	534.2	3.49	4.00	3.25
L0016353 YES	0	0.16320E-05	471580.2	3751825.0	534.6	3.49	4.00	3.25
L0016354 YES	0	0.16320E-05	471588.8	3751825.1	534.8	3.49	4.00	3.25
L0016355 YES	0	0.16320E-05	471597.4	3751825.1	535.0	3.49	4.00	3.25
L0016356 YES	0	0.16320E-05	471605.9	3751825.2	535.2	3.49	4.00	3.25
L0016357 YES	0	0.16320E-05	471614.5	3751825.3	535.4	3.49	4.00	3.25
L0016358 YES	0	0.16320E-05	471623.1	3751825.4	535.6	3.49	4.00	3.25
L0016359 YES	0	0.16320E-05	471631.7	3751825.5	535.8	3.49	4.00	3.25
L0016360 YES	0	0.16320E-05	471640.3	3751825.6	536.0	3.49	4.00	3.25
L0016361 YES	0	0.16320E-05	471648.9	3751825.7	536.0	3.49	4.00	3.25
L0016362 YES	0	0.16320E-05	471657.5	3751825.7	536.0	3.49	4.00	3.25
L0016363 YES	0	0.16320E-05	471666.1	3751825.8	536.0	3.49	4.00	3.25
L0016364 YES	0	0.16320E-05	471674.7	3751825.9	536.0	3.49	4.00	3.25
L0016365 YES	0	0.16320E-05	471683.2	3751826.0	536.0	3.49	4.00	3.25
L0016366 YES	0	0.16320E-05	471691.8	3751826.1	536.0	3.49	4.00	3.25
L0016367 YES	0	0.16320E-05	471700.4	3751826.2	536.0	3.49	4.00	3.25
L0016368 YES	0	0.16320E-05	471709.0	3751826.2	536.0	3.49	4.00	3.25
L0016369 YES	0	0.16320E-05	471717.6	3751826.3	536.0	3.49	4.00	3.25
L0016370 YES	0	0.41860E-05	471731.6	3751806.5	536.1	3.49	4.00	3.25
L0016371 YES	0	0.41860E-05	471731.7	3751797.9	536.1	3.49	4.00	3.25
L0016372 YES	0	0.41860E-05	471731.8	3751789.3	536.1	3.49	4.00	3.25
L0016373 YES	0	0.41860E-05	471731.9	3751780.7	536.1	3.49	4.00	3.25
L0016374 YES	0	0.41860E-05	471732.0	3751772.1	536.0	3.49	4.00	3.25
L0016375 YES	0	0.41860E-05	471732.1	3751763.6	536.0	3.49	4.00	3.25
L0016376 YES	0	0.41860E-05	471732.2	3751755.0	535.9	3.49	4.00	3.25
L0016377 YES	0	0.41860E-05	471732.3	3751746.4	535.7	3.49	4.00	3.25
L0016378 YES	0	0.41860E-05	471732.4	3751737.8	535.4	3.49	4.00	3.25
L0016379 YES	0	0.41860E-05	471732.5	3751729.2	535.2	3.49	4.00	3.25
L0016380 YES	0	0.41860E-05	471732.6	3751720.6	535.1	3.49	4.00	3.25

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0016381 YES	0	0.41860E-05	471732.7	3751712.0	535.1	3.49	4.00	3.25
L0016382 YES	0	0.41860E-05	471732.9	3751703.4	535.1	3.49	4.00	3.25
L0016383 YES	0	0.41860E-05	471733.0	3751694.8	535.1	3.49	4.00	3.25
L0016384 YES	0	0.41860E-05	471733.1	3751686.3	535.1	3.49	4.00	3.25
L0016385 YES	0	0.41860E-05	471733.2	3751677.7	535.1	3.49	4.00	3.25
L0016386 YES	0	0.41860E-05	471733.3	3751669.1	535.1	3.49	4.00	3.25
L0016387 YES	0	0.41860E-05	471733.4	3751660.5	534.9	3.49	4.00	3.25
L0016388 YES	0	0.41860E-05	471733.5	3751651.9	534.6	3.49	4.00	3.25
L0016389 YES	0	0.41860E-05	471733.6	3751643.3	534.4	3.49	4.00	3.25
L0016390 YES	0	0.41860E-05	471733.7	3751634.7	534.1	3.49	4.00	3.25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC)	SOURCE SCALAR	VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0016391 YES	0	0.41860E-05			471733.8	3751626.1	534.1	3.49	4.00	3.25
L0016392 YES	0	0.41860E-05			471733.9	3751617.5	534.1	3.49	4.00	3.25
L0016393 YES	0	0.16320E-05			471222.2	3751597.4	526.5	3.49	4.00	3.25
L0016394 YES	0	0.16320E-05			471230.7	3751597.4	527.3	3.49	4.00	3.25
L0016395 YES	0	0.16320E-05			471239.3	3751597.4	528.1	3.49	4.00	3.25
L0016396 YES	0	0.16320E-05			471247.9	3751597.5	528.8	3.49	4.00	3.25
L0016397 YES	0	0.16320E-05			471256.5	3751597.5	529.2	3.49	4.00	3.25
L0016398 YES	0	0.16320E-05			471265.1	3751597.5	529.5	3.49	4.00	3.25
L0016399 YES	0	0.16320E-05			471273.7	3751597.6	529.8	3.49	4.00	3.25
L0016400 YES	0	0.16320E-05			471282.3	3751597.6	530.2	3.49	4.00	3.25
L0016401 YES	0	0.16320E-05			471290.9	3751597.6	530.9	3.49	4.00	3.25
L0016402 YES	0	0.16320E-05			471299.5	3751597.7	531.6	3.49	4.00	3.25
L0016403 YES	0	0.16320E-05			471308.1	3751597.7	532.3	3.49	4.00	3.25

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L0016404      0   0.16320E-05   471316.6 3751597.7   533.4    3.49    4.00    3.25
  YES
L0016405      0   0.16320E-05   471325.2 3751597.8   534.6    3.49    4.00    3.25
  YES
L0016406      0   0.16320E-05   471333.8 3751597.8   535.9    3.49    4.00    3.25
  YES
L0016407      0   0.16320E-05   471342.4 3751597.8   536.7    3.49    4.00    3.25
  YES
L0016408      0   0.16320E-05   471351.0 3751597.9   536.8    3.49    4.00    3.25
  YES
L0016409      0   0.16320E-05   471359.6 3751597.9   536.9    3.49    4.00    3.25
  YES
L0016410      0   0.16320E-05   471368.2 3751597.9   537.0    3.49    4.00    3.25
  YES
L0016411      0   0.16320E-05   471376.8 3751598.0   536.6    3.49    4.00    3.25
  YES
L0016412      0   0.16320E-05   471385.4 3751598.0   536.1    3.49    4.00    3.25
  YES
L0016413      0   0.16320E-05   471394.0 3751598.0   535.6    3.49    4.00    3.25
  YES
L0016414      0   0.16320E-05   471402.5 3751598.1   535.1    3.49    4.00    3.25
  YES
L0016415      0   0.16320E-05   471411.1 3751598.1   534.5    3.49    4.00    3.25
  YES
L0016416      0   0.16320E-05   471419.7 3751598.1   533.9    3.49    4.00    3.25
  YES
L0016417      0   0.16320E-05   471428.3 3751598.1   533.4    3.49    4.00    3.25
  YES
L0016418      0   0.16320E-05   471436.9 3751598.2   533.0    3.49    4.00    3.25
  YES
L0016419      0   0.16320E-05   471445.5 3751598.2   532.8    3.49    4.00    3.25
  YES
L0016420      0   0.16320E-05   471454.1 3751598.2   532.5    3.49    4.00    3.25
  YES
L0016421      0   0.16320E-05   471462.7 3751598.3   532.1    3.49    4.00    3.25
  YES
L0016422      0   0.16320E-05   471471.3 3751598.3   531.5    3.49    4.00    3.25
  YES
L0016423      0   0.16320E-05   471479.9 3751598.3   530.9    3.49    4.00    3.25
  YES
L0016424      0   0.16320E-05   471488.4 3751598.4   530.3    3.49    4.00    3.25
  YES
L0016425      0   0.16320E-05   471497.0 3751598.4   530.3    3.49    4.00    3.25
  YES
L0016426      0   0.16320E-05   471505.6 3751598.4   530.3    3.49    4.00    3.25
  YES
L0016427      0   0.16320E-05   471514.2 3751598.5   530.3    3.49    4.00    3.25
  YES
L0016428      0   0.16320E-05   471522.8 3751598.5   530.2    3.49    4.00    3.25
  YES
L0016429      0   0.16320E-05   471531.4 3751598.5   529.9    3.49    4.00    3.25
  YES
L0016430      0   0.16320E-05   471540.0 3751598.6   529.6    3.49    4.00    3.25
  YES
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.

SOURCE ID (METERS)	URBAN SOURCE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ
L0016431 YES	0	0.16320E-05	471548.6	3751598.6	529.3	3.49	4.00	3.25
L0016432 YES	0	0.16320E-05	471557.2	3751598.6	529.3	3.49	4.00	3.25
L0016433 YES	0	0.16320E-05	471565.8	3751598.7	529.3	3.49	4.00	3.25
L0016434 YES	0	0.16320E-05	471574.3	3751598.7	529.3	3.49	4.00	3.25
L0016435 YES	0	0.16320E-05	471582.9	3751598.7	529.3	3.49	4.00	3.25
L0016436 YES	0	0.16320E-05	471591.5	3751598.8	529.4	3.49	4.00	3.25
L0016437 YES	0	0.16320E-05	471600.1	3751598.8	529.6	3.49	4.00	3.25
L0016438 YES	0	0.16320E-05	471608.7	3751598.8	529.7	3.49	4.00	3.25
L0016439 YES	0	0.16320E-05	471617.3	3751598.9	529.7	3.49	4.00	3.25
L0016440 YES	0	0.16320E-05	471625.9	3751598.9	529.7	3.49	4.00	3.25
L0016441 YES	0	0.16320E-05	471634.5	3751598.9	529.7	3.49	4.00	3.25
L0016442 YES	0	0.16320E-05	471643.1	3751599.0	529.8	3.49	4.00	3.25
L0016443 YES	0	0.16320E-05	471651.6	3751599.0	530.0	3.49	4.00	3.25
L0016444 YES	0	0.16320E-05	471660.2	3751599.0	530.3	3.49	4.00	3.25
L0016445 YES	0	0.16320E-05	471668.8	3751599.1	530.5	3.49	4.00	3.25
L0016446 YES	0	0.16320E-05	471677.4	3751599.1	530.8	3.49	4.00	3.25
L0016447 YES	0	0.16320E-05	471686.0	3751599.1	531.2	3.49	4.00	3.25
L0016448 YES	0	0.16320E-05	471694.6	3751599.1	531.5	3.49	4.00	3.25
L0016449 YES	0	0.16320E-05	471703.2	3751599.2	532.0	3.49	4.00	3.25
L0016450 YES	0	0.16320E-05	471711.8	3751599.2	532.6	3.49	4.00	3.25
L0016451 YES	0	0.16320E-05	471720.4	3751599.2	533.1	3.49	4.00	3.25
L0016452 YES	0	0.22630E-05	471255.4	3752185.4	518.7	3.49	4.00	3.25
L0016453 YES	0	0.22630E-05	471264.0	3752185.5	518.7	3.49	4.00	3.25
L0016454 YES	0	0.22630E-05	471272.6	3752185.6	518.7	3.49	4.00	3.25
L0016455 YES	0	0.22630E-05	471281.2	3752185.7	518.8	3.49	4.00	3.25
L0016456 YES	0	0.22630E-05	471289.8	3752185.8	519.3	3.49	4.00	3.25
L0016457 YES	0	0.22630E-05	471298.4	3752185.9	519.8	3.49	4.00	3.25
L0016458 YES	0	0.22630E-05	471307.0	3752186.0	520.2	3.49	4.00	3.25
L0016459 YES	0	0.22630E-05	471315.6	3752186.1	520.7	3.49	4.00	3.25

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L0016460        0    0.22630E-05  471324.2 3752186.2   521.2    3.49    4.00    3.25
  YES
L0016461        0    0.22630E-05  471332.7 3752186.2   521.7    3.49    4.00    3.25
  YES
L0016462        0    0.22630E-05  471341.3 3752186.3   522.1    3.49    4.00    3.25
  YES
L0016463        0    0.22630E-05  471349.9 3752186.4   522.5    3.49    4.00    3.25
  YES
L0016464        0    0.22630E-05  471358.5 3752186.5   522.8    3.49    4.00    3.25
  YES
L0016465        0    0.22630E-05  471367.1 3752186.6   523.2    3.49    4.00    3.25
  YES
L0016466        0    0.22630E-05  471375.7 3752186.7   523.5    3.49    4.00    3.25
  YES
L0016467        0    0.22630E-05  471384.3 3752186.8   523.8    3.49    4.00    3.25
  YES
L0016468        0    0.22630E-05  471392.9 3752186.9   524.1    3.49    4.00    3.25
  YES
L0016469        0    0.22630E-05  471401.5 3752187.0   524.4    3.49    4.00    3.25
  YES
L0016470        0    0.22630E-05  471410.1 3752187.0   525.0    3.49    4.00    3.25
  YES
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0016471	0	0.22630E-05	471418.6	3752187.1	525.6	3.49	4.00	3.25
YES								
L0016472	0	0.22630E-05	471427.2	3752187.2	526.1	3.49	4.00	3.25
YES								
L0016473	0	0.22630E-05	471435.8	3752187.3	526.6	3.49	4.00	3.25
YES								
L0016474	0	0.22630E-05	471444.4	3752187.4	527.1	3.49	4.00	3.25
YES								
L0016475	0	0.22630E-05	471453.0	3752187.5	527.6	3.49	4.00	3.25
YES								
L0016476	0	0.22630E-05	471461.6	3752187.6	527.9	3.49	4.00	3.25
YES								
L0016477	0	0.22630E-05	471470.2	3752187.7	528.0	3.49	4.00	3.25
YES								
L0016478	0	0.22630E-05	471478.8	3752187.8	528.0	3.49	4.00	3.25
YES								
L0016479	0	0.22630E-05	471487.4	3752187.8	528.1	3.49	4.00	3.25
YES								
L0016480	0	0.22630E-05	471495.9	3752187.9	528.2	3.49	4.00	3.25
YES								
L0016481	0	0.22630E-05	471504.5	3752188.0	528.3	3.49	4.00	3.25
YES								
L0016482	0	0.22630E-05	471513.1	3752188.1	528.4	3.49	4.00	3.25
YES								

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L0016483          0   0.22630E-05  471521.7 3752188.2   528.4    3.49    4.00    3.25
   YES
L0016484          0   0.22630E-05  471530.3 3752188.3   528.0    3.49    4.00    3.25
   YES
L0016485          0   0.22630E-05  471538.9 3752188.4   527.6    3.49    4.00    3.25
   YES
L0016486          0   0.22630E-05  471547.5 3752188.5   527.3    3.49    4.00    3.25
   YES
L0016487          0   0.22630E-05  471556.1 3752188.6   526.8    3.49    4.00    3.25
   YES
L0016488          0   0.22630E-05  471564.7 3752188.6   526.2    3.49    4.00    3.25
   YES
L0016489          0   0.22630E-05  471573.3 3752188.7   525.6    3.49    4.00    3.25
   YES
L0016490          0   0.22630E-05  471581.8 3752188.8   525.3    3.49    4.00    3.25
   YES
L0016491          0   0.22630E-05  471590.4 3752188.9   525.5    3.49    4.00    3.25
   YES
L0016492          0   0.22630E-05  471599.0 3752189.0   525.8    3.49    4.00    3.25
   YES
L0016493          0   0.22630E-05  471607.6 3752189.1   526.1    3.49    4.00    3.25
   YES
L0016494          0   0.22630E-05  471616.2 3752189.2   526.3    3.49    4.00    3.25
   YES
L0016495          0   0.22630E-05  471624.8 3752189.3   526.4    3.49    4.00    3.25
   YES
L0016496          0   0.22630E-05  471633.4 3752189.4   526.5    3.49    4.00    3.25
   YES
L0016497          0   0.22630E-05  471642.0 3752189.4   526.6    3.49    4.00    3.25
   YES
L0016498          0   0.22630E-05  471650.6 3752189.5   526.6    3.49    4.00    3.25
   YES
L0016499          0   0.22630E-05  471659.1 3752189.6   526.6    3.49    4.00    3.25
   YES
L0016500          0   0.22630E-05  471667.7 3752189.7   526.6    3.49    4.00    3.25
   YES
L0016501          0   0.22630E-05  471676.3 3752189.8   526.4    3.49    4.00    3.25
   YES
L0016502          0   0.22630E-05  471684.9 3752189.9   526.3    3.49    4.00    3.25
   YES
L0016503          0   0.22630E-05  471693.5 3752190.0   526.1    3.49    4.00    3.25
   YES
L0016504          0   0.22630E-05  471702.1 3752190.1   525.8    3.49    4.00    3.25
   YES
L0016505          0   0.22630E-05  471710.7 3752190.2   525.3    3.49    4.00    3.25
   YES
L0016506          0   0.22630E-05  471256.8 3751969.0   522.4    3.49    4.00    3.25
   YES
L0016507          0   0.22630E-05  471265.3 3751969.2   521.9    3.49    4.00    3.25
   YES
L0016508          0   0.22630E-05  471273.9 3751969.3   521.4    3.49    4.00    3.25
   YES
L0016509          0   0.22630E-05  471282.5 3751969.4   521.2    3.49    4.00    3.25
   YES
L0016510          0   0.22630E-05  471291.1 3751969.5   521.5    3.49    4.00    3.25
   YES
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN SOURCE PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
(METERS)								
L0016511 YES	0	0.22630E-05	471299.7	3751969.6	521.8	3.49	4.00	3.25
L0016512 YES	0	0.22630E-05	471308.3	3751969.7	522.1	3.49	4.00	3.25
L0016513 YES	0	0.22630E-05	471316.9	3751969.8	522.3	3.49	4.00	3.25
L0016514 YES	0	0.22630E-05	471325.5	3751969.9	522.6	3.49	4.00	3.25
L0016515 YES	0	0.22630E-05	471334.1	3751970.0	522.9	3.49	4.00	3.25
L0016516 YES	0	0.22630E-05	471342.7	3751970.1	523.2	3.49	4.00	3.25
L0016517 YES	0	0.22630E-05	471351.2	3751970.2	523.5	3.49	4.00	3.25
L0016518 YES	0	0.22630E-05	471359.8	3751970.3	523.9	3.49	4.00	3.25
L0016519 YES	0	0.22630E-05	471368.4	3751970.4	524.2	3.49	4.00	3.25
L0016520 YES	0	0.22630E-05	471377.0	3751970.5	525.0	3.49	4.00	3.25
L0016521 YES	0	0.22630E-05	471385.6	3751970.6	525.9	3.49	4.00	3.25
L0016522 YES	0	0.22630E-05	471394.2	3751970.7	526.7	3.49	4.00	3.25
L0016523 YES	0	0.22630E-05	471402.8	3751970.8	527.4	3.49	4.00	3.25
L0016524 YES	0	0.22630E-05	471411.4	3751970.9	527.7	3.49	4.00	3.25
L0016525 YES	0	0.22630E-05	471420.0	3751971.0	528.0	3.49	4.00	3.25
L0016526 YES	0	0.22630E-05	471428.5	3751971.2	528.3	3.49	4.00	3.25
L0016527 YES	0	0.22630E-05	471437.1	3751971.3	528.7	3.49	4.00	3.25
L0016528 YES	0	0.22630E-05	471445.7	3751971.4	529.2	3.49	4.00	3.25
L0016529 YES	0	0.22630E-05	471454.3	3751971.5	529.7	3.49	4.00	3.25
L0016530 YES	0	0.22630E-05	471462.9	3751971.6	530.1	3.49	4.00	3.25
L0016531 YES	0	0.22630E-05	471471.5	3751971.7	530.3	3.49	4.00	3.25
L0016532 YES	0	0.22630E-05	471480.1	3751971.8	530.6	3.49	4.00	3.25
L0016533 YES	0	0.22630E-05	471488.7	3751971.9	530.8	3.49	4.00	3.25
L0016534 YES	0	0.22630E-05	471497.3	3751972.0	531.0	3.49	4.00	3.25
L0016535 YES	0	0.22630E-05	471505.9	3751972.1	531.3	3.49	4.00	3.25
L0016536 YES	0	0.22630E-05	471514.4	3751972.2	531.5	3.49	4.00	3.25
L0016537 YES	0	0.22630E-05	471523.0	3751972.3	531.9	3.49	4.00	3.25
L0016538 YES	0	0.22630E-05	471531.6	3751972.4	532.6	3.49	4.00	3.25

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0016539	0	0.22630E-05	471540.2	3751972.5	533.2	3.49	4.00	3.25
YES
L0016540	0	0.22630E-05	471548.8	3751972.6	533.9	3.49	4.00	3.25
YES
L0016541	0	0.22630E-05	471557.4	3751972.7	534.5	3.49	4.00	3.25
YES
L0016542	0	0.22630E-05	471566.0	3751972.8	535.1	3.49	4.00	3.25
YES
L0016543	0	0.22630E-05	471574.6	3751972.9	535.7	3.49	4.00	3.25
YES
L0016544	0	0.22630E-05	471583.2	3751973.0	536.0	3.49	4.00	3.25
YES
L0016545	0	0.22630E-05	471591.7	3751973.1	536.0	3.49	4.00	3.25
YES
L0016546	0	0.22630E-05	471600.3	3751973.3	536.0	3.49	4.00	3.25
YES
L0016547	0	0.22630E-05	471608.9	3751973.4	536.0	3.49	4.00	3.25
YES
L0016548	0	0.22630E-05	471617.5	3751973.5	535.7	3.49	4.00	3.25
YES
L0016549	0	0.22630E-05	471626.1	3751973.6	535.4	3.49	4.00	3.25
YES
L0016550	0	0.22630E-05	471634.7	3751973.7	535.2	3.49	4.00	3.25
YES

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE SCALAR VARY CATS. BY	EMISSION RATE EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0016551	0	0.22630E-05	471643.3	3751973.8	534.8	3.49	4.00	3.25
YES
L0016552	0	0.22630E-05	471651.9	3751973.9	534.2	3.49	4.00	3.25
YES
L0016553	0	0.22630E-05	471660.5	3751974.0	533.6	3.49	4.00	3.25
YES
L0016554	0	0.22630E-05	471669.0	3751974.1	533.0	3.49	4.00	3.25
YES
L0016555	0	0.22630E-05	471677.6	3751974.2	532.7	3.49	4.00	3.25
YES
L0016556	0	0.22630E-05	471686.2	3751974.3	532.4	3.49	4.00	3.25
YES
L0016557	0	0.22630E-05	471694.8	3751974.4	532.2	3.49	4.00	3.25
YES
L0016558	0	0.22630E-05	471703.4	3751974.5	531.8	3.49	4.00	3.25
YES
L0016559	0	0.22630E-05	471712.0	3751974.6	531.5	3.49	4.00	3.25
YES
L0016560	0	0.28590E-05	471845.0	3752163.1	522.1	3.49	4.00	3.25
YES
L0016561	0	0.28590E-05	471845.1	3752154.5	522.9	3.49	4.00	3.25
YES

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L0016562        0    0.28590E-05    471845.2 3752145.9    523.8    3.49    4.00    3.25
  YES
L0016563        0    0.28590E-05    471845.2 3752137.3    524.4    3.49    4.00    3.25
  YES
L0016564        0    0.28590E-05    471845.3 3752128.7    525.0    3.49    4.00    3.25
  YES
L0016565        0    0.28590E-05    471845.4 3752120.1    525.6    3.49    4.00    3.25
  YES
L0016566        0    0.28590E-05    471845.5 3752111.5    526.2    3.49    4.00    3.25
  YES
L0016567        0    0.28590E-05    471845.6 3752103.0    526.7    3.49    4.00    3.25
  YES
L0016568        0    0.28590E-05    471845.6 3752094.4    527.3    3.49    4.00    3.25
  YES
L0016569        0    0.28590E-05    471845.7 3752085.8    527.8    3.49    4.00    3.25
  YES
L0016570        0    0.28590E-05    471845.8 3752077.2    528.3    3.49    4.00    3.25
  YES
L0016571        0    0.28590E-05    471845.9 3752068.6    528.9    3.49    4.00    3.25
  YES
L0016572        0    0.28590E-05    471846.0 3752060.0    529.4    3.49    4.00    3.25
  YES
L0016573        0    0.28590E-05    471846.0 3752051.4    530.0    3.49    4.00    3.25
  YES
L0016574        0    0.28590E-05    471846.1 3752042.8    530.5    3.49    4.00    3.25
  YES
L0016575        0    0.28590E-05    471846.2 3752034.2    531.1    3.49    4.00    3.25
  YES
L0016576        0    0.28590E-05    471846.3 3752025.7    531.7    3.49    4.00    3.25
  YES
L0016577        0    0.28590E-05    471846.4 3752017.1    532.5    3.49    4.00    3.25
  YES
L0016578        0    0.28590E-05    471846.5 3752008.5    533.3    3.49    4.00    3.25
  YES
L0016579        0    0.28590E-05    471846.5 3751999.9    534.2    3.49    4.00    3.25
  YES
L0016580        0    0.28590E-05    471846.6 3751991.3    534.7    3.49    4.00    3.25
  YES
L0016581        0    0.11370E-06    471848.4 3751803.7    539.0    3.49    4.00    3.25
  YES
L0016582        0    0.11370E-06    471848.4 3751795.1    539.0    3.49    4.00    3.25
  YES
L0016583        0    0.11370E-06    471848.5 3751786.5    539.0    3.49    4.00    3.25
  YES
L0016584        0    0.11370E-06    471848.6 3751778.0    539.0    3.49    4.00    3.25
  YES
L0016585        0    0.11370E-06    471848.6 3751769.4    539.0    3.49    4.00    3.25
  YES
L0016586        0    0.11370E-06    471848.7 3751760.8    539.0    3.49    4.00    3.25
  YES
L0016587        0    0.11370E-06    471848.8 3751752.2    539.0    3.49    4.00    3.25
  YES
L0016588        0    0.11370E-06    471848.8 3751743.6    539.0    3.49    4.00    3.25
  YES
L0016589        0    0.11370E-06    471848.9 3751735.0    539.0    3.49    4.00    3.25
  YES
L0016590        0    0.11370E-06    471849.0 3751726.4    539.0    3.49    4.00    3.25
  YES
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 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                                          *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
       URBAN  EMISSION RATE
  SOURCE  PART.  (GRAMS/SEC)     X         Y        ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID     CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0016591       0   0.11370E-06  471849.0 3751717.8   539.0    3.49     4.00     3.25
YES
L0016592       0   0.11370E-06  471849.1 3751709.2   539.0    3.49     4.00     3.25
YES
L0016593       0   0.11370E-06  471849.1 3751700.6   539.0    3.49     4.00     3.25
YES
L0016594       0   0.97210E-07  471495.3 3751414.3   533.3    3.49     4.00     3.25
YES
L0016595       0   0.97210E-07  471495.4 3751405.7   533.0    3.49     4.00     3.25
YES
L0016596       0   0.97210E-07  471495.5 3751397.2   532.8    3.49     4.00     3.25
YES
L0016597       0   0.97210E-07  471495.5 3751388.6   532.3    3.49     4.00     3.25
YES
L0016598       0   0.97210E-07  471495.6 3751380.0   531.7    3.49     4.00     3.25
YES
L0016599       0   0.97210E-07  471495.7 3751371.4   531.1    3.49     4.00     3.25
YES
L0016600       0   0.97210E-07  471495.8 3751362.8   530.7    3.49     4.00     3.25
YES
L0016601       0   0.97210E-07  471495.9 3751354.2   530.4    3.49     4.00     3.25
YES
L0016602       0   0.97210E-07  471496.0 3751345.6   530.1    3.49     4.00     3.25
YES
L0016603       0   0.97210E-07  471496.1 3751337.0   529.8    3.49     4.00     3.25
YES
L0016604       0   0.97210E-07  471496.2 3751328.4   529.3    3.49     4.00     3.25
YES
L0016605       0   0.97210E-07  471496.3 3751319.8   528.9    3.49     4.00     3.25
YES
L0016606       0   0.97210E-07  471496.4 3751311.3   528.5    3.49     4.00     3.25
YES
L0016607       0   0.97210E-07  471496.4 3751302.7   528.2    3.49     4.00     3.25
YES
L0016608       0   0.97210E-07  471496.5 3751294.1   528.2    3.49     4.00     3.25
YES
L0016609       0   0.97210E-07  471496.6 3751285.5   528.2    3.49     4.00     3.25
YES
L0016610       0   0.97210E-07  471496.7 3751276.9   528.2    3.49     4.00     3.25
YES
L0016611       0   0.97210E-07  471496.8 3751268.3   528.0    3.49     4.00     3.25
YES
L0016612       0   0.97210E-07  471496.9 3751259.7   527.7    3.49     4.00     3.25
YES
L0016613       0   0.97210E-07  471394.9 3751414.3   536.7    3.49     4.00     3.25
YES
L0016614       0   0.97210E-07  471395.0 3751405.7   536.5    3.49     4.00     3.25
YES
L0016615       0   0.97210E-07  471395.1 3751397.2   536.2    3.49     4.00     3.25
YES
L0016616       0   0.97210E-07  471395.2 3751388.6   535.6    3.49     4.00     3.25
YES
L0016617       0   0.97210E-07  471395.2 3751380.0   534.9    3.49     4.00     3.25
YES
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L0016618       0   0.97210E-07  471395.3 3751371.4  534.3    3.49    4.00    3.25
 YES
L0016619       0   0.97210E-07  471395.4 3751362.8  533.5    3.49    4.00    3.25
 YES
L0016620       0   0.97210E-07  471395.5 3751354.2  532.3    3.49    4.00    3.25
 YES
L0016621       0   0.97210E-07  471395.6 3751345.6  531.2    3.49    4.00    3.25
 YES
L0016622       0   0.97210E-07  471395.7 3751337.0  530.0    3.49    4.00    3.25
 YES
L0016623       0   0.97210E-07  471395.8 3751328.4  529.4    3.49    4.00    3.25
 YES
L0016624       0   0.97210E-07  471395.9 3751319.8  528.9    3.49    4.00    3.25
 YES
L0016625       0   0.97210E-07  471396.0 3751311.3  528.3    3.49    4.00    3.25
 YES
L0016626       0   0.97210E-07  471396.0 3751302.7  527.7    3.49    4.00    3.25
 YES
L0016627       0   0.97210E-07  471396.1 3751294.1  527.2    3.49    4.00    3.25
 YES
L0016628       0   0.97210E-07  471396.2 3751285.5  526.6    3.49    4.00    3.25
 YES
L0016629       0   0.97210E-07  471396.3 3751276.9  526.0    3.49    4.00    3.25
 YES
L0016630       0   0.97210E-07  471396.4 3751268.3  525.5    3.49    4.00    3.25
 YES
```

🇫🇫 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                       *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ

```
L0016631       0   0.97210E-07  471396.5 3751259.7  524.9    3.49    4.00    3.25
 YES
L0016632       0   0.14210E-06  471160.4 3752325.6  513.0    3.49    4.00    3.25
 YES
L0016633       0   0.14210E-06  471169.0 3752325.7  513.0    3.49    4.00    3.25
 YES
L0016634       0   0.14210E-06  471177.6 3752325.9  513.0    3.49    4.00    3.25
 YES
L0016635       0   0.14210E-06  471186.1 3752326.0  513.0    3.49    4.00    3.25
 YES
L0016636       0   0.14210E-06  471194.7 3752326.1  513.0    3.49    4.00    3.25
 YES
L0016637       0   0.14210E-06  471203.3 3752326.3  513.0    3.49    4.00    3.25
 YES
L0016638       0   0.14210E-06  471211.9 3752326.4  513.0    3.49    4.00    3.25
 YES
L0016639       0   0.14210E-06  471220.5 3752326.5  513.0    3.49    4.00    3.25
 YES
L0016640       0   0.14210E-06  471229.1 3752326.7  512.7    3.49    4.00    3.25
 YES
```

L0016641	0	0.14210E-06	471237.7	3752326.8	512.4	3.49	4.00	3.25
YES								
L0016642	0	0.14210E-06	471246.3	3752326.9	512.1	3.49	4.00	3.25
YES								
L0016643	0	0.14210E-06	471254.9	3752327.1	512.1	3.49	4.00	3.25
YES								
L0016644	0	0.14210E-06	471263.5	3752327.2	512.4	3.49	4.00	3.25
YES								
L0016645	0	0.14210E-06	471397.4	3752327.3	512.1	3.49	4.00	3.25
YES								
L0016646	0	0.14210E-06	471406.0	3752327.4	512.2	3.49	4.00	3.25
YES								
L0016647	0	0.14210E-06	471414.6	3752327.6	512.5	3.49	4.00	3.25
YES								
L0016648	0	0.14210E-06	471423.2	3752327.7	512.8	3.49	4.00	3.25
YES								
L0016649	0	0.14210E-06	471431.8	3752327.8	513.3	3.49	4.00	3.25
YES								
L0016650	0	0.14210E-06	471440.4	3752328.0	514.7	3.49	4.00	3.25
YES								
L0016651	0	0.14210E-06	471449.0	3752328.1	516.1	3.49	4.00	3.25
YES								
L0016652	0	0.14210E-06	471457.6	3752328.2	517.5	3.49	4.00	3.25
YES								
L0016653	0	0.14210E-06	471466.2	3752328.4	518.3	3.49	4.00	3.25
YES								
L0016654	0	0.14210E-06	471474.7	3752328.5	518.9	3.49	4.00	3.25
YES								
L0016655	0	0.14210E-06	471483.3	3752328.6	519.5	3.49	4.00	3.25
YES								
L0016656	0	0.14210E-06	471491.9	3752328.7	519.9	3.49	4.00	3.25
YES								
L0016657	0	0.14210E-06	471500.5	3752328.9	519.9	3.49	4.00	3.25
YES								
L0016658	0	0.23090E-05	472046.0	3751992.4	524.1	3.49	4.00	3.25
YES								
L0016659	0	0.23090E-05	472045.9	3752001.0	524.5	3.49	4.00	3.25
YES								
L0016660	0	0.23090E-05	472045.8	3752009.6	524.8	3.49	4.00	3.25
YES								
L0016661	0	0.23090E-05	472045.8	3752018.2	525.1	3.49	4.00	3.25
YES								
L0016662	0	0.23090E-05	472045.7	3752026.7	525.4	3.49	4.00	3.25
YES								
L0016663	0	0.23090E-05	472045.6	3752035.3	525.4	3.49	4.00	3.25
YES								
L0016664	0	0.23090E-05	472045.5	3752043.9	525.4	3.49	4.00	3.25
YES								
L0016665	0	0.23090E-05	472045.5	3752052.5	525.4	3.49	4.00	3.25
YES								
L0016666	0	0.23090E-05	472045.4	3752061.1	525.5	3.49	4.00	3.25
YES								
L0016667	0	0.23090E-05	472045.3	3752069.7	525.6	3.49	4.00	3.25
YES								
L0016668	0	0.23090E-05	472045.3	3752078.3	525.8	3.49	4.00	3.25
YES								
L0016669	0	0.23090E-05	472045.2	3752086.9	526.0	3.49	4.00	3.25
YES								
L0016670	0	0.23090E-05	472045.1	3752095.5	525.8	3.49	4.00	3.25
YES								

```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                             *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.     INIT.
         URBAN  EMISSION RATE
  SOURCE   PART.  (GRAMS/SEC)     X         Y         ELEV.   HEIGHT     SY        SZ
    SOURCE  SCALAR VARY
     ID     CATS.              (METERS)  (METERS)  (METERS) (METERS)  (METERS)
    (METERS)          BY
```

SOURCE ID	URBAN SOURCE (METERS)	NUMBER PART. CATS.	SCALAR VARY BY	EMISSION RATE EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0016671	YES	0		0.23090E-05	472045.0	3752104.1	525.7	3.49	4.00	3.25
L0016672	YES	0		0.23090E-05	472045.0	3752112.6	525.5	3.49	4.00	3.25
L0016673	YES	0		0.23090E-05	472044.9	3752121.2	525.3	3.49	4.00	3.25
L0016674	YES	0		0.23090E-05	472044.8	3752129.8	524.8	3.49	4.00	3.25
L0016675	YES	0		0.23090E-05	472044.8	3752138.4	524.4	3.49	4.00	3.25
L0016676	YES	0		0.23090E-05	472044.7	3752147.0	524.0	3.49	4.00	3.25
L0016677	YES	0		0.23090E-05	472044.6	3752155.6	523.5	3.49	4.00	3.25
L0016678	YES	0		0.23090E-05	472044.6	3752164.2	523.1	3.49	4.00	3.25
L0016679	YES	0		0.23090E-05	472044.5	3752172.8	522.7	3.49	4.00	3.25
L0016680	YES	0		0.23090E-05	472044.4	3752181.4	522.3	3.49	4.00	3.25
L0016681	YES	0		0.23090E-05	472044.3	3752189.9	521.8	3.49	4.00	3.25
L0016682	YES	0		0.23090E-05	472044.3	3752198.5	521.4	3.49	4.00	3.25
L0016683	YES	0		0.23090E-05	472044.2	3752207.1	521.0	3.49	4.00	3.25
L0016684	YES	0		0.13100E-06	471632.2	3752328.9	517.7	3.49	4.00	3.25
L0016685	YES	0		0.13100E-06	471640.7	3752328.9	517.7	3.49	4.00	3.25
L0016686	YES	0		0.13100E-06	471649.3	3752329.0	518.0	3.49	4.00	3.25
L0016687	YES	0		0.13100E-06	471657.9	3752329.0	518.3	3.49	4.00	3.25
L0016688	YES	0		0.13100E-06	471666.5	3752329.1	518.6	3.49	4.00	3.25
L0016689	YES	0		0.13100E-06	471675.1	3752329.1	518.6	3.49	4.00	3.25
L0016690	YES	0		0.13100E-06	471683.7	3752329.2	518.3	3.49	4.00	3.25
L0016691	YES	0		0.13100E-06	471692.3	3752329.2	518.0	3.49	4.00	3.25
L0016692	YES	0		0.13100E-06	471700.9	3752329.3	517.8	3.49	4.00	3.25
L0016693	YES	0		0.13100E-06	471709.5	3752329.3	517.8	3.49	4.00	3.25
L0016694	YES	0		0.13100E-06	471718.1	3752329.4	517.8	3.49	4.00	3.25
L0016695	YES	0		0.87950E-07	471877.8	3752330.7	515.7	3.49	4.00	3.25
L0016696	YES	0		0.87950E-07	471886.4	3752330.7	515.9	3.49	4.00	3.25

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L0016697        0    0.87950E-07   471895.0 3752330.8    515.9      3.49      4.00      3.25
YES
L0016698        0    0.87950E-07   471903.6 3752330.9    515.9      3.49      4.00      3.25
YES
L0016699        0    0.87950E-07   471912.2 3752330.9    515.8      3.49      4.00      3.25
YES
L0016700        0    0.87950E-07   471920.7 3752331.0    515.5      3.49      4.00      3.25
YES
L0016701        0    0.87950E-07   471929.3 3752331.0    515.2      3.49      4.00      3.25
YES
L0016702        0    0.87950E-07   471937.9 3752331.1    514.9      3.49      4.00      3.25
YES
L0016703        0    0.87950E-07   471946.5 3752331.1    515.0      3.49      4.00      3.25
YES
L0016704        0    0.87950E-07   471955.1 3752331.2    515.3      3.49      4.00      3.25
YES
L0016705        0    0.87950E-07   471963.7 3752331.3    515.5      3.49      4.00      3.25
YES
L0016706        0    0.87950E-07   471972.3 3752331.3    515.4      3.49      4.00      3.25
YES
L0016707        0    0.87950E-07   471980.9 3752331.4    514.6      3.49      4.00      3.25
YES
L0016708        0    0.87950E-07   471989.5 3752331.4    513.8      3.49      4.00      3.25
YES
L0016709        0    0.87950E-07   471998.1 3752331.5    513.0      3.49      4.00      3.25
YES
L0016710        0    0.87950E-07   472006.6 3752331.5    512.6      3.49      4.00      3.25
YES
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0016711	0	0.87950E-07	472015.2	3752331.6	512.2	3.49	4.00	3.25
YES								
L0016712	0	0.87950E-07	472023.8	3752331.7	511.9	3.49	4.00	3.25
YES								
L0016713	0	0.87950E-07	472032.4	3752331.7	511.4	3.49	4.00	3.25
YES								
L0016714	0	0.87950E-07	472041.0	3752331.8	510.4	3.49	4.00	3.25
YES								
L0016715	0	0.87950E-07	472049.6	3752331.8	509.5	3.49	4.00	3.25
YES								
L0016716	0	0.67530E-07	471072.4	3752163.8	510.5	3.49	4.00	3.25
YES								
L0016717	0	0.67530E-07	471072.4	3752172.4	509.7	3.49	4.00	3.25
YES								
L0016718	0	0.67530E-07	471072.3	3752181.0	509.1	3.49	4.00	3.25
YES								
L0016719	0	0.67530E-07	471072.2	3752189.5	508.8	3.49	4.00	3.25
YES								

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L0016720          0    0.67530E-07   471072.2 3752198.1   508.5    3.49    4.00    3.25
   YES
L0016721          0    0.67530E-07   471072.1 3752206.7   508.2    3.49    4.00    3.25
   YES
L0016722          0    0.67530E-07   471072.1 3752215.3   508.4    3.49    4.00    3.25
   YES
L0016723          0    0.67530E-07   471072.0 3752223.9   508.7    3.49    4.00    3.25
   YES
L0016724          0    0.67530E-07   471071.9 3752232.5   508.9    3.49    4.00    3.25
   YES
L0016725          0    0.67530E-07   471071.9 3752241.1   508.9    3.49    4.00    3.25
   YES
L0016726          0    0.67530E-07   471071.8 3752249.7   508.7    3.49    4.00    3.25
   YES
L0016727          0    0.67530E-07   471071.8 3752258.3   508.5    3.49    4.00    3.25
   YES
L0016728          0    0.67530E-07   471071.7 3752266.9   508.2    3.49    4.00    3.25
   YES
L0016729          0    0.98540E-07   471009.6 3751969.2   512.1    3.49    4.00    3.25
   YES
L0016730          0    0.98540E-07   471012.8 3751977.2   512.5    3.49    4.00    3.25
   YES
L0016731          0    0.98540E-07   471016.0 3751985.2   512.8    3.49    4.00    3.25
   YES
L0016732          0    0.98540E-07   471019.1 3751993.1   513.2    3.49    4.00    3.25
   YES
L0016733          0    0.98540E-07   471022.3 3752001.1   513.6    3.49    4.00    3.25
   YES
L0016734          0    0.98540E-07   471025.5 3752009.1   513.9    3.49    4.00    3.25
   YES
L0016735          0    0.98540E-07   471028.7 3752017.1   514.3    3.49    4.00    3.25
   YES
L0016736          0    0.11740E-06   471015.2 3751738.2   516.7    3.49    4.00    3.25
   YES
L0016737          0    0.11740E-06   471015.2 3751746.8   516.4    3.49    4.00    3.25
   YES
L0016738          0    0.11740E-06   471015.2 3751755.4   516.0    3.49    4.00    3.25
   YES
L0016739          0    0.11740E-06   471015.2 3751764.0   515.9    3.49    4.00    3.25
   YES
L0016740          0    0.11740E-06   471015.2 3751772.6   515.8    3.49    4.00    3.25
   YES
L0016741          0    0.11740E-06   471015.2 3751781.2   515.7    3.49    4.00    3.25
   YES
L0016742          0    0.11740E-06   471015.2 3751789.7   515.7    3.49    4.00    3.25
   YES
L0016743          0    0.11740E-06   471015.2 3751798.3   515.9    3.49    4.00    3.25
   YES
L0016744          0    0.11740E-06   471015.2 3751806.9   516.0    3.49    4.00    3.25
   YES
L0016745          0    0.11740E-06   471015.2 3751815.5   516.2    3.49    4.00    3.25
   YES
L0016746          0    0.87790E-07   471016.0 3751599.6   520.0    3.49    4.00    3.25
   YES
L0016747          0    0.87790E-07   471016.0 3751608.2   519.7    3.49    4.00    3.25
   YES
L0016748          0    0.87790E-07   471016.0 3751616.7   520.0    3.49    4.00    3.25
   YES
L0016749          0    0.87790E-07   471016.0 3751625.3   520.3    3.49    4.00    3.25
   YES
L0016750          0    0.87790E-07   471016.0 3751633.9   520.6    3.49    4.00    3.25
   YES
```

🔢 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

                                          *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0016751 YES	0	0.87790E-07	471016.0	3751642.5	520.6	3.49	4.00	3.25
L0016752 YES	0	0.87790E-07	471016.0	3751651.1	520.5	3.49	4.00	3.25
L0016753 YES	0	0.87790E-07	471016.0	3751659.7	520.5	3.49	4.00	3.25
L0016754 YES	0	0.87790E-07	471016.0	3751668.3	520.4	3.49	4.00	3.25
L0016755 YES	0	0.87790E-07	471016.0	3751676.9	519.9	3.49	4.00	3.25
L0016756 YES	0	0.70390E-07	471161.1	3751437.8	525.4	3.49	4.00	3.25
L0016757 YES	0	0.70390E-07	471161.1	3751429.2	525.1	3.49	4.00	3.25
L0016758 YES	0	0.70390E-07	471161.1	3751420.7	524.9	3.49	4.00	3.25
L0016759 YES	0	0.70390E-07	471161.1	3751412.1	524.6	3.49	4.00	3.25
L0016760 YES	0	0.70390E-07	471161.1	3751403.5	524.3	3.49	4.00	3.25
L0016761 YES	0	0.70390E-07	471161.1	3751394.9	524.2	3.49	4.00	3.25
L0016762 YES	0	0.70390E-07	471161.1	3751386.3	524.4	3.49	4.00	3.25
L0016763 YES	0	0.70390E-07	471161.1	3751377.7	524.7	3.49	4.00	3.25
L0016764 YES	0	0.70390E-07	471161.1	3751369.1	525.0	3.49	4.00	3.25
L0016765 YES	0	0.70390E-07	471161.1	3751360.5	524.9	3.49	4.00	3.25
L0016766 YES	0	0.70390E-07	471161.1	3751351.9	524.6	3.49	4.00	3.25
L0016767 YES	0	0.70390E-07	471161.1	3751343.3	524.3	3.49	4.00	3.25
L0016768 YES	0	0.70390E-07	471161.1	3751334.8	524.0	3.49	4.00	3.25
L0016769 YES	0	0.70390E-07	471161.1	3751326.2	523.8	3.49	4.00	3.25
L0014246 YES	0	0.10180E-05	471776.0	3751890.3	534.9	3.49	6.51	3.25
L0014247 YES	0	0.10180E-05	471762.0	3751890.2	534.7	3.49	6.51	3.25
L0014248 YES	0	0.10180E-05	471748.0	3751890.0	535.2	3.49	6.51	3.25
L0014249 YES	0	0.10180E-05	471734.0	3751889.9	535.8	3.49	6.51	3.25
L0014250 YES	0	0.10180E-05	471720.0	3751889.8	536.0	3.49	6.51	3.25
L0014251 YES	0	0.10180E-05	471706.0	3751889.7	536.0	3.49	6.51	3.25

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L0014252         0    0.10180E-05   471692.0 3751889.6   536.0     3.49     6.51     3.25
  YES
L0014253         0    0.10180E-05   471678.0 3751889.5   536.0     3.49     6.51     3.25
  YES
L0014254         0    0.10180E-05   471664.0 3751889.3   536.0     3.49     6.51     3.25
  YES
L0014255         0    0.10180E-05   471650.0 3751889.2   536.0     3.49     6.51     3.25
  YES
L0014256         0    0.10180E-05   471636.0 3751889.1   536.0     3.49     6.51     3.25
  YES
L0014257         0    0.10180E-05   471622.0 3751889.0   536.0     3.49     6.51     3.25
  YES
L0014258         0    0.10180E-05   471608.0 3751888.9   536.0     3.49     6.51     3.25
  YES
L0014259         0    0.10180E-05   471594.0 3751888.7   536.0     3.49     6.51     3.25
  YES
L0014260         0    0.10180E-05   471580.0 3751888.6   536.0     3.49     6.51     3.25
  YES
L0014261         0    0.10180E-05   471566.0 3751888.5   535.4     3.49     6.51     3.25
  YES
L0014262         0    0.10180E-05   471552.0 3751888.4   534.7     3.49     6.51     3.25
  YES
L0014263         0    0.10180E-05   471538.0 3751888.3   533.6     3.49     6.51     3.25
  YES
L0014264         0    0.10180E-05   471524.0 3751888.2   532.4     3.49     6.51     3.25
  YES
L0014265         0    0.10180E-05   471510.0 3751888.0   531.5     3.49     6.51     3.25
  YES
L0014266         0    0.10180E-05   471496.0 3751887.9   530.7     3.49     6.51     3.25
  YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)

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L0014267         0    0.10180E-05   471482.0 3751887.8   529.9     3.49     6.51     3.25
  YES
L0014268         0    0.10180E-05   471468.0 3751887.7   528.9     3.49     6.51     3.25
  YES
L0014269         0    0.10180E-05   471454.0 3751887.6   528.2     3.49     6.51     3.25
  YES
L0014270         0    0.10180E-05   471440.0 3751887.4   527.7     3.49     6.51     3.25
  YES
L0014271         0    0.10180E-05   471426.0 3751887.3   527.1     3.49     6.51     3.25
  YES
L0014272         0    0.10180E-05   471412.0 3751887.2   526.0     3.49     6.51     3.25
  YES
L0014273         0    0.10180E-05   471398.0 3751887.1   524.9     3.49     6.51     3.25
  YES
L0014274         0    0.10180E-05   471384.0 3751887.0   524.5     3.49     6.51     3.25
  YES
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L0014275	0	0.10180E-05	471370.0	3751886.8	524.0	3.49	6.51	3.25
YES								
L0014276	0	0.10180E-05	471356.0	3751886.7	523.5	3.49	6.51	3.25
YES								
L0014277	0	0.10180E-05	471342.0	3751886.6	523.1	3.49	6.51	3.25
YES								
L0014278	0	0.10180E-05	471328.0	3751886.5	522.9	3.49	6.51	3.25
YES								
L0014279	0	0.10180E-05	471314.0	3751886.4	522.7	3.49	6.51	3.25
YES								
L0014280	0	0.10180E-05	471300.0	3751886.3	522.7	3.49	6.51	3.25
YES								
L0014281	0	0.10180E-05	471286.0	3751886.1	522.6	3.49	6.51	3.25
YES								
L0014282	0	0.10180E-05	471272.0	3751886.0	523.0	3.49	6.51	3.25
YES								
L0014283	0	0.10180E-05	471258.0	3751885.9	523.6	3.49	6.51	3.25
YES								
L0014284	0	0.10180E-05	471244.0	3751885.8	524.2	3.49	6.51	3.25
YES								
L0014285	0	0.10180E-05	471230.0	3751885.7	524.6	3.49	6.51	3.25
YES								
L0014286	0	0.10180E-05	471216.0	3751885.5	525.0	3.49	6.51	3.25
YES								
L0014287	0	0.10180E-05	471202.0	3751885.4	525.0	3.49	6.51	3.25
YES								
L0014288	0	0.10180E-05	471188.0	3751885.3	524.9	3.49	6.51	3.25
YES								
L0014289	0	0.10180E-05	471174.0	3751885.2	524.5	3.49	6.51	3.25
YES								
L0014290	0	0.10180E-05	471160.0	3751885.1	524.0	3.49	6.51	3.25
YES								
L0014291	0	0.10180E-05	471146.0	3751885.0	522.2	3.49	6.51	3.25
YES								
L0014292	0	0.10180E-05	471132.0	3751884.8	520.3	3.49	6.51	3.25
YES								
L0014293	0	0.10180E-05	471118.0	3751884.7	518.9	3.49	6.51	3.25
YES								
L0014294	0	0.10180E-05	471104.0	3751884.6	517.7	3.49	6.51	3.25
YES								
L0014295	0	0.10180E-05	471090.0	3751884.5	516.1	3.49	6.51	3.25
YES								
L0014296	0	0.10180E-05	471076.0	3751884.4	514.3	3.49	6.51	3.25
YES								
L0014297	0	0.25280E-05	471790.0	3751890.8	535.1	3.49	6.51	3.25
YES								
L0014298	0	0.25280E-05	471804.0	3751891.0	535.5	3.49	6.51	3.25
YES								
L0014299	0	0.25280E-05	471818.0	3751891.2	535.9	3.49	6.51	3.25
YES								
L0014300	0	0.25280E-05	471832.0	3751891.4	536.4	3.49	6.51	3.25
YES								
L0014301	0	0.25280E-05	471846.0	3751891.6	536.9	3.49	6.51	3.25
YES								
L0014302	0	0.25280E-05	471860.0	3751891.8	537.0	3.49	6.51	3.25
YES								
L0014303	0	0.25280E-05	471874.0	3751892.0	537.0	3.49	6.51	3.25
YES								
L0014304	0	0.25280E-05	471888.0	3751892.2	536.6	3.49	6.51	3.25
YES								
L0014305	0	0.25280E-05	471902.0	3751892.4	535.9	3.49	6.51	3.25
YES								
L0014306	0	0.25280E-05	471916.0	3751892.5	534.9	3.49	6.51	3.25
YES								

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*** AERMET - VERSION  16216 ***
***                                                              ***       16:21:25

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
  SOURCE      PART.  (GRAMS/SEC)     X        Y        ELEV.   HEIGHT     SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)            BY
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L0014307        0   0.25280E-05  471930.0 3751892.7   533.7    3.49      6.51     3.25
YES
L0014308        0   0.25280E-05  471944.0 3751892.3   532.5    3.49      6.51     3.25
YES
L0014309        0   0.25280E-05  471957.9 3751891.2   531.2    3.49      6.51     3.25
YES
L0014310        0   0.25280E-05  471971.8 3751889.8   530.2    3.49      6.51     3.25
YES
L0014311        0   0.25280E-05  471985.7 3751887.7   530.8    3.49      6.51     3.25
YES
L0014312        0   0.25280E-05  471999.6 3751885.7   531.4    3.49      6.51     3.25
YES
L0014313        0   0.25280E-05  472013.4 3751883.7   531.3    3.49      6.51     3.25
YES
L0014314        0   0.25280E-05  472027.3 3751881.6   531.0    3.49      6.51     3.25
YES
L0014315        0   0.25280E-05  472040.8 3751877.9   530.6    3.49      6.51     3.25
YES
L0014316        0   0.25280E-05  472054.2 3751874.1   530.3    3.49      6.51     3.25
YES
L0014317        0   0.25280E-05  472067.7 3751870.2   530.4    3.49      6.51     3.25
YES
L0014318        0   0.25280E-05  472081.1 3751866.3   530.4    3.49      6.51     3.25
YES
L0014319        0   0.25280E-05  472094.6 3751862.5   530.2    3.49      6.51     3.25
YES
L0014320        0   0.25280E-05  472108.0 3751858.6   529.6    3.49      6.51     3.25
YES
L0014321        0   0.25280E-05  472121.5 3751854.7   528.7    3.49      6.51     3.25
YES
L0014322        0   0.25280E-05  472134.9 3751850.9   526.1    3.49      6.51     3.25
YES
L0014323        0   0.25280E-05  472148.6 3751847.8   523.3    3.49      6.51     3.25
YES
L0014324        0   0.25280E-05  472162.3 3751845.1   521.0    3.49      6.51     3.25
YES
L0014325        0   0.25280E-05  472176.1 3751842.4   519.0    3.49      6.51     3.25
YES
L0014326        0   0.25280E-05  472189.8 3751839.6   518.4    3.49      6.51     3.25
YES
L0014327        0   0.25280E-05  472203.7 3751838.5   518.2    3.49      6.51     3.25
YES
L0014328        0   0.25280E-05  472217.7 3751837.5   518.3    3.49      6.51     3.25
YES
L0014329        0   0.25280E-05  472231.7 3751836.4   518.6    3.49      6.51     3.25
YES
L0014330        0   0.25280E-05  472245.6 3751835.3   517.9    3.49      6.51     3.25
YES
```

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L0014331          0    0.25280E-05  472259.6 3751835.5   515.8    3.49    6.51    3.25
   YES
L0014332          0    0.25280E-05  472273.5 3751836.4   513.8    3.49    6.51    3.25
   YES
L0014333          0    0.25280E-05  472287.5 3751837.3   512.7    3.49    6.51    3.25
   YES
L0014334          0    0.25280E-05  472301.5 3751838.2   511.8    3.49    6.51    3.25
   YES
L0014335          0    0.25280E-05  472315.5 3751839.2   511.2    3.49    6.51    3.25
   YES
L0014336          0    0.25280E-05  472329.4 3751840.1   510.7    3.49    6.51    3.25
   YES
L0014337          0    0.25280E-05  472343.4 3751841.0   508.7    3.49    6.51    3.25
   YES
L0014338          0    0.25280E-05  472357.4 3751841.9   506.8    3.49    6.51    3.25
   YES
L0014339          0    0.25280E-05  472371.3 3751842.9   505.9    3.49    6.51    3.25
   YES
L0014340          0    0.25280E-05  472385.3 3751843.8   505.4    3.49    6.51    3.25
   YES
L0014341          0    0.25280E-05  472399.3 3751844.9   505.1    3.49    6.51    3.25
   YES
L0014342          0    0.25280E-05  472413.2 3751846.1   505.0    3.49    6.51    3.25
   YES
L0014343          0    0.25280E-05  472427.2 3751847.2   505.2    3.49    6.51    3.25
   YES
L0014344          0    0.25280E-05  472441.1 3751848.3   505.7    3.49    6.51    3.25
   YES
L0014345          0    0.25280E-05  472455.1 3751849.5   505.7    3.49    6.51    3.25
   YES
L0014346          0    0.25280E-05  472469.0 3751850.6   504.9    3.49    6.51    3.25
   YES
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
             URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
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```
L0014347          0    0.25280E-05  472483.0 3751851.8   504.0    3.49    6.51    3.25
   YES
L0014348          0    0.25280E-05  472496.9 3751852.9   502.8    3.49    6.51    3.25
   YES
L0014349          0    0.25280E-05  472510.9 3751854.0   501.7    3.49    6.51    3.25
   YES
L0014350          0    0.25280E-05  472524.8 3751855.2   501.2    3.49    6.51    3.25
   YES
L0014351          0    0.25280E-05  472538.8 3751856.3   500.7    3.49    6.51    3.25
   YES
L0014352          0    0.25280E-05  472552.7 3751857.4   499.7    3.49    6.51    3.25
   YES
L0014353          0    0.25280E-05  472566.7 3751858.6   498.6    3.49    6.51    3.25
   YES
```

L0014354	0	0.25280E-05	472580.7	3751859.7	497.0	3.49	6.51	3.25
YES								
L0014355	0	0.25280E-05	472594.6	3751860.9	495.1	3.49	6.51	3.25
YES								
L0014356	0	0.25280E-05	472608.6	3751862.0	494.4	3.49	6.51	3.25
YES								
L0014357	0	0.25280E-05	472622.5	3751863.0	494.1	3.49	6.51	3.25
YES								
L0014358	0	0.25280E-05	472636.5	3751864.0	493.7	3.49	6.51	3.25
YES								
L0014359	0	0.25280E-05	472650.5	3751865.1	493.2	3.49	6.51	3.25
YES								
L0014360	0	0.25280E-05	472664.3	3751866.7	492.6	3.49	6.51	3.25
YES								
L0014361	0	0.25280E-05	472678.2	3751868.4	492.1	3.49	6.51	3.25
YES								
L0014362	0	0.25280E-05	472691.6	3751872.7	491.4	3.49	6.51	3.25
YES								
L0014363	0	0.25280E-05	472704.9	3751877.1	491.5	3.49	6.51	3.25
YES								
L0014364	0	0.25280E-05	472718.2	3751881.5	491.3	3.49	6.51	3.25
YES								
L0014365	0	0.25280E-05	472731.4	3751885.9	491.2	3.49	6.51	3.25
YES								
L0014366	0	0.25280E-05	472744.7	3751890.3	491.0	3.49	6.51	3.25
YES								
L0014367	0	0.25280E-05	472758.0	3751894.7	490.7	3.49	6.51	3.25
YES								
L0014368	0	0.25280E-05	472771.3	3751899.0	490.2	3.49	6.51	3.25
YES								
L0014369	0	0.25280E-05	472784.6	3751903.4	489.8	3.49	6.51	3.25
YES								
L0014370	0	0.25280E-05	472797.9	3751907.8	490.1	3.49	6.51	3.25
YES								
L0014371	0	0.25280E-05	472811.2	3751912.2	490.4	3.49	6.51	3.25
YES								
L0014372	0	0.25280E-05	472824.5	3751916.6	489.3	3.49	6.51	3.25
YES								
L0014373	0	0.25280E-05	472837.8	3751921.0	488.6	3.49	6.51	3.25
YES								
L0014374	0	0.25280E-05	472851.1	3751925.4	488.2	3.49	6.51	3.25
YES								
L0014375	0	0.25280E-05	472864.4	3751929.8	488.0	3.49	6.51	3.25
YES								
L0014376	0	0.25280E-05	472877.7	3751934.2	488.0	3.49	6.51	3.25
YES								
L0014377	0	0.25280E-05	472891.0	3751938.6	488.0	3.49	6.51	3.25
YES								
L0014378	0	0.25280E-05	472904.2	3751943.1	487.9	3.49	6.51	3.25
YES								
L0014379	0	0.25280E-05	472917.5	3751947.6	487.4	3.49	6.51	3.25
YES								
L0014380	0	0.25280E-05	472930.7	3751952.2	487.0	3.49	6.51	3.25
YES								
L0014381	0	0.25280E-05	472943.9	3751956.7	487.0	3.49	6.51	3.25
YES								
L0014382	0	0.25280E-05	472957.2	3751961.3	487.0	3.49	6.51	3.25
YES								
L0014383	0	0.25280E-05	472970.4	3751965.8	486.6	3.49	6.51	3.25
YES								
L0014384	0	0.25280E-05	472983.7	3751970.3	486.1	3.49	6.51	3.25
YES								
L0014385	0	0.25280E-05	472996.9	3751974.9	485.6	3.49	6.51	3.25
YES								
L0014386	0	0.25280E-05	473010.2	3751979.4	485.2	3.49	6.51	3.25
YES								

 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

		NUMBER EMISSION RATE			BASE	RELEASE	INIT.	INIT.
		URBAN EMISSION RATE						
SOURCE		PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY							
ID	CATS.			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)|		BY						

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| L0014387 | 0 | 0.25280E-05 | 473023.2 | 3751984.4 | 484.9 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014388 | 0 | 0.25280E-05 | 473036.3 | 3751989.5 | 484.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014389 | 0 | 0.25280E-05 | 473049.4 | 3751994.3 | 484.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014390 | 0 | 0.25280E-05 | 473062.9 | 3751998.2 | 483.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014391 | 0 | 0.25280E-05 | 473076.4 | 3752002.0 | 483.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014392 | 0 | 0.25280E-05 | 473089.8 | 3752005.8 | 483.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014393 | 0 | 0.25280E-05 | 473103.5 | 3752008.7 | 483.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014394 | 0 | 0.25280E-05 | 473117.2 | 3752011.6 | 482.8 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014395 | 0 | 0.25280E-05 | 473131.1 | 3752013.3 | 482.3 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014396 | 0 | 0.25280E-05 | 473145.0 | 3752014.9 | 481.9 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014397 | 0 | 0.25280E-05 | 473158.9 | 3752016.5 | 481.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014398 | 0 | 0.25280E-05 | 473172.9 | 3752017.7 | 481.3 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014399 | 0 | 0.25280E-05 | 473186.9 | 3752017.3 | 481.1 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014400 | 0 | 0.25280E-05 | 473200.8 | 3752017.0 | 481.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014401 | 0 | 0.25280E-05 | 473214.8 | 3752016.6 | 480.5 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014402 | 0 | 0.25280E-05 | 473228.8 | 3752016.3 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014403 | 0 | 0.25280E-05 | 473242.8 | 3752016.8 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014404 | 0 | 0.25280E-05 | 473256.8 | 3752017.8 | 480.0 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014405 | 0 | 0.25280E-05 | 473270.7 | 3752018.9 | 479.6 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014406 | 0 | 0.25280E-05 | 473284.7 | 3752019.9 | 479.2 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014407 | 0 | 0.25280E-05 | 473298.7 | 3752021.0 | 478.7 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014408 | 0 | 0.25280E-05 | 473312.6 | 3752022.0 | 478.2 | 3.49 | 6.51 | 3.25 |
| YES |
| L0014409 | 0 | 0.25280E-05 | 473326.5 | 3752023.6 | 477.8 | 3.49 | 6.51 | 3.25 |
| YES |

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L0014410        0   0.25280E-05  473340.4 3752025.4   477.3    3.49    6.51    3.25
  YES
L0014411        0   0.25280E-05  473354.3 3752027.2   476.8    3.49    6.51    3.25
  YES
L0014412        0   0.25280E-05  473368.2 3752028.9   476.4    3.49    6.51    3.25
  YES
L0014413        0   0.25280E-05  473382.1 3752030.7   476.0    3.49    6.51    3.25
  YES
L0014414        0   0.25280E-05  473396.0 3752032.5   476.0    3.49    6.51    3.25
  YES
L0014415        0   0.25280E-05  473409.8 3752034.2   476.0    3.49    6.51    3.25
  YES
L0014416        0   0.25280E-05  473423.7 3752036.1   475.7    3.49    6.51    3.25
  YES
L0014417        0   0.25280E-05  473437.4 3752039.2   475.5    3.49    6.51    3.25
  YES
L0014418        0   0.63630E-06  471063.9 3751893.1   513.6    3.49    6.51    3.25
  YES
L0014419        0   0.63630E-06  471064.4 3751907.0   514.5    3.49    6.51    3.25
  YES
L0014420        0   0.63630E-06  471065.0 3751921.0   515.5    3.49    6.51    3.25
  YES
L0014421        0   0.63630E-06  471065.5 3751935.0   516.5    3.49    6.51    3.25
  YES
L0014422        0   0.63630E-06  471066.5 3751949.0   516.6    3.49    6.51    3.25
  YES
L0014423        0   0.63630E-06  471067.5 3751962.9   516.7    3.49    6.51    3.25
  YES
L0014424        0   0.63630E-06  471069.2 3751976.8   516.6    3.49    6.51    3.25
  YES
L0014425        0   0.63630E-06  471073.6 3751990.1   516.3    3.49    6.51    3.25
  YES
L0014426        0   0.63630E-06  471077.9 3752003.4   516.3    3.49    6.51    3.25
  YES
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▦ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0014427	0	0.63630E-06	471082.3	3752016.7	516.4	3.49	6.51	3.25
YES								
L0014428	0	0.63630E-06	471086.7	3752030.0	516.4	3.49	6.51	3.25
YES								
L0014429	0	0.63630E-06	471091.1	3752043.3	515.8	3.49	6.51	3.25
YES								
L0014430	0	0.63630E-06	471095.5	3752056.5	515.0	3.49	6.51	3.25
YES								
L0014431	0	0.63630E-06	471100.4	3752069.7	514.1	3.49	6.51	3.25
YES								
L0014432	0	0.63630E-06	471105.2	3752082.8	513.3	3.49	6.51	3.25
YES								

L0014433	0	0.63630E-06	471110.0	3752096.0	512.7	3.49	6.51	3.25
YES								
L0014434	0	0.63630E-06	471114.8	3752109.1	512.2	3.49	6.51	3.25
YES								
L0014435	0	0.63630E-06	471119.2	3752122.4	512.2	3.49	6.51	3.25
YES								
L0014436	0	0.63630E-06	471121.8	3752136.1	512.6	3.49	6.51	3.25
YES								
L0014437	0	0.63630E-06	471124.4	3752149.9	512.9	3.49	6.51	3.25
YES								
L0014438	0	0.63630E-06	471126.2	3752163.7	512.4	3.49	6.51	3.25
YES								
L0014439	0	0.63630E-06	471126.0	3752177.7	512.0	3.49	6.51	3.25
YES								
L0014440	0	0.63630E-06	471125.9	3752191.7	511.9	3.49	6.51	3.25
YES								
L0014441	0	0.63630E-06	471125.8	3752205.7	511.8	3.49	6.51	3.25
YES								
L0014442	0	0.63630E-06	471125.6	3752219.7	511.7	3.49	6.51	3.25
YES								
L0014443	0	0.63630E-06	471125.5	3752233.7	511.7	3.49	6.51	3.25
YES								
L0014444	0	0.63630E-06	471125.3	3752247.7	511.8	3.49	6.51	3.25
YES								
L0014445	0	0.63630E-06	471131.0	3752256.0	512.0	3.49	6.51	3.25
YES								
L0014446	0	0.63630E-06	471145.0	3752256.1	512.5	3.49	6.51	3.25
YES								
L0014447	0	0.63630E-06	471159.0	3752256.3	513.0	3.49	6.51	3.25
YES								
L0014448	0	0.63630E-06	471173.0	3752256.4	513.8	3.49	6.51	3.25
YES								
L0014449	0	0.63630E-06	471187.0	3752256.5	514.5	3.49	6.51	3.25
YES								
L0014450	0	0.63630E-06	471201.0	3752256.7	515.0	3.49	6.51	3.25
YES								
L0014451	0	0.63630E-06	471215.0	3752256.8	515.5	3.49	6.51	3.25
YES								
L0014452	0	0.63630E-06	471229.0	3752256.9	515.3	3.49	6.51	3.25
YES								
L0014453	0	0.63630E-06	471243.0	3752257.1	514.9	3.49	6.51	3.25
YES								
L0014454	0	0.63630E-06	471257.0	3752257.2	514.7	3.49	6.51	3.25
YES								
L0014455	0	0.63630E-06	471271.0	3752257.3	514.8	3.49	6.51	3.25
YES								
L0014456	0	0.63630E-06	471285.0	3752257.5	515.0	3.49	6.51	3.25
YES								
L0014457	0	0.63630E-06	471299.0	3752257.6	515.4	3.49	6.51	3.25
YES								
L0014458	0	0.63630E-06	471313.0	3752257.7	515.8	3.49	6.51	3.25
YES								
L0014459	0	0.63630E-06	471327.0	3752257.9	516.6	3.49	6.51	3.25
YES								
L0014460	0	0.63630E-06	471341.0	3752258.0	517.3	3.49	6.51	3.25
YES								
L0014461	0	0.63630E-06	471355.0	3752258.1	517.4	3.49	6.51	3.25
YES								
L0014462	0	0.63630E-06	471369.0	3752258.3	517.5	3.49	6.51	3.25
YES								
L0014463	0	0.63630E-06	471383.0	3752258.4	518.0	3.49	6.51	3.25
YES								
L0014464	0	0.63630E-06	471397.0	3752258.6	518.4	3.49	6.51	3.25
YES								
L0014465	0	0.63630E-06	471411.0	3752258.7	518.6	3.49	6.51	3.25
YES								

```
L0014466            0   0.75850E-06   471428.8 3752257.7   518.9     3.49     6.51     3.25
   YES
```

▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0014467 YES	0	0.75850E-06	471442.8	3752257.8	519.0	3.49	6.51	3.25
L0014468 YES	0	0.75850E-06	471456.8	3752257.9	519.1	3.49	6.51	3.25
L0014469 YES	0	0.75850E-06	471470.8	3752257.9	519.5	3.49	6.51	3.25
L0014470 YES	0	0.75850E-06	471484.8	3752258.0	520.0	3.49	6.51	3.25
L0014471 YES	0	0.75850E-06	471498.8	3752258.1	520.8	3.49	6.51	3.25
L0014472 YES	0	0.75850E-06	471512.8	3752258.2	521.8	3.49	6.51	3.25
L0014473 YES	0	0.75850E-06	471526.8	3752258.3	522.5	3.49	6.51	3.25
L0014474 YES	0	0.75850E-06	471540.8	3752258.4	523.0	3.49	6.51	3.25
L0014475 YES	0	0.75850E-06	471554.8	3752258.5	522.8	3.49	6.51	3.25
L0014476 YES	0	0.75850E-06	471568.8	3752258.5	521.5	3.49	6.51	3.25
L0014477 YES	0	0.75850E-06	471582.8	3752258.6	520.4	3.49	6.51	3.25
L0014478 YES	0	0.75850E-06	471596.8	3752258.7	519.7	3.49	6.51	3.25
L0014479 YES	0	0.75850E-06	471610.8	3752258.8	519.1	3.49	6.51	3.25
L0014480 YES	0	0.75850E-06	471624.8	3752258.9	519.9	3.49	6.51	3.25
L0014481 YES	0	0.75850E-06	471638.8	3752259.0	520.7	3.49	6.51	3.25
L0014482 YES	0	0.75850E-06	471652.8	3752259.1	522.0	3.49	6.51	3.25
L0014483 YES	0	0.75850E-06	471666.8	3752259.1	523.2	3.49	6.51	3.25
L0014484 YES	0	0.75850E-06	471680.8	3752259.2	523.2	3.49	6.51	3.25
L0014485 YES	0	0.75850E-06	471694.8	3752259.3	522.8	3.49	6.51	3.25
L0014486 YES	0	0.75850E-06	471708.8	3752259.4	522.6	3.49	6.51	3.25
L0014487 YES	0	0.75850E-06	471722.8	3752259.5	522.3	3.49	6.51	3.25
L0014488 YES	0	0.75850E-06	471736.8	3752259.6	521.9	3.49	6.51	3.25

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L0014489          0   0.75850E-06   471750.8 3752259.7   521.4     3.49    6.51     3.25
  YES
L0014490          0   0.75850E-06   471764.8 3752259.7   520.6     3.49    6.51     3.25
  YES
L0014491          0   0.75850E-06   471778.8 3752259.8   519.7     3.49    6.51     3.25
  YES
L0014492          0   0.75850E-06   471780.4 3752247.4   519.6     3.49    6.51     3.25
  YES
L0014493          0   0.75850E-06   471780.5 3752233.4   519.5     3.49    6.51     3.25
  YES
L0014494          0   0.75850E-06   471780.6 3752219.4   519.2     3.49    6.51     3.25
  YES
L0014495          0   0.75850E-06   471780.7 3752205.4   518.9     3.49    6.51     3.25
  YES
L0014496          0   0.75850E-06   471780.8 3752191.4   518.7     3.49    6.51     3.25
  YES
L0014497          0   0.75850E-06   471780.9 3752177.4   518.6     3.49    6.51     3.25
  YES
L0014498          0   0.75850E-06   471781.0 3752163.4   518.7     3.49    6.51     3.25
  YES
L0014499          0   0.75850E-06   471781.1 3752149.4   518.8     3.49    6.51     3.25
  YES
L0014500          0   0.75850E-06   471781.3 3752135.4   519.5     3.49    6.51     3.25
  YES
L0014501          0   0.75850E-06   471781.4 3752121.4   520.3     3.49    6.51     3.25
  YES
L0014502          0   0.75850E-06   471781.5 3752107.4   521.6     3.49    6.51     3.25
  YES
L0014503          0   0.75850E-06   471781.6 3752093.4   523.2     3.49    6.51     3.25
  YES
L0014504          0   0.75850E-06   471781.7 3752079.4   524.1     3.49    6.51     3.25
  YES
L0014505          0   0.75850E-06   471781.8 3752065.4   524.2     3.49    6.51     3.25
  YES
L0014506          0   0.75850E-06   471781.9 3752051.4   524.4     3.49    6.51     3.25
  YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
  *** AERMET - VERSION 16216 ***
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  *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

```
              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)      X        Y        ELEV.   HEIGHT     SY       SZ
   SOURCE  SCALAR VARY
     ID      CATS.                  (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0014507          0   0.75850E-06   471782.0 3752037.4   524.9     3.49    6.51     3.25
  YES
L0014508          0   0.75850E-06   471782.1 3752023.4   525.6     3.49    6.51     3.25
  YES
L0014509          0   0.75850E-06   471782.2 3752009.4   527.0     3.49    6.51     3.25
  YES
L0014510          0   0.75850E-06   471782.3 3751995.4   528.3     3.49    6.51     3.25
  YES
L0014511          0   0.75850E-06   471782.5 3751981.4   528.8     3.49    6.51     3.25
  YES
```

L0014512	0	0.75850E-06	471782.6	3751967.4	529.2	3.49	6.51	3.25
YES								
L0014513	0	0.75850E-06	471782.7	3751953.4	529.7	3.49	6.51	3.25
YES								
L0014514	0	0.75850E-06	471782.8	3751939.4	530.1	3.49	6.51	3.25
YES								
L0014515	0	0.75850E-06	471782.9	3751925.4	531.6	3.49	6.51	3.25
YES								
L0014516	0	0.75850E-06	471783.0	3751911.4	533.2	3.49	6.51	3.25
YES								
L0014517	0	0.75850E-06	471783.1	3751897.4	534.5	3.49	6.51	3.25
YES								
L0014518	0	0.38060E-06	471064.0	3751877.5	512.7	3.49	6.51	3.25
YES								
L0014519	0	0.38060E-06	471064.1	3751863.5	512.4	3.49	6.51	3.25
YES								
L0014520	0	0.38060E-06	471064.2	3751849.5	512.1	3.49	6.51	3.25
YES								
L0014521	0	0.38060E-06	471064.4	3751835.5	512.1	3.49	6.51	3.25
YES								
L0014522	0	0.38060E-06	471064.5	3751821.5	512.1	3.49	6.51	3.25
YES								
L0014523	0	0.38060E-06	471064.6	3751807.5	512.5	3.49	6.51	3.25
YES								
L0014524	0	0.38060E-06	471064.8	3751793.5	512.9	3.49	6.51	3.25
YES								
L0014525	0	0.38060E-06	471064.9	3751779.5	513.8	3.49	6.51	3.25
YES								
L0014526	0	0.38060E-06	471065.0	3751765.5	515.2	3.49	6.51	3.25
YES								
L0014527	0	0.38060E-06	471065.1	3751751.5	516.5	3.49	6.51	3.25
YES								
L0014528	0	0.38060E-06	471065.3	3751737.5	517.8	3.49	6.51	3.25
YES								
L0014529	0	0.38060E-06	471065.4	3751723.5	519.1	3.49	6.51	3.25
YES								
L0014530	0	0.38060E-06	471065.5	3751709.5	519.9	3.49	6.51	3.25
YES								
L0014531	0	0.38060E-06	471065.7	3751695.5	520.9	3.49	6.51	3.25
YES								
L0014532	0	0.38060E-06	471065.8	3751681.5	522.3	3.49	6.51	3.25
YES								
L0014533	0	0.38060E-06	471065.9	3751667.5	523.7	3.49	6.51	3.25
YES								
L0014534	0	0.38060E-06	471066.1	3751653.5	524.2	3.49	6.51	3.25
YES								
L0014535	0	0.38060E-06	471066.2	3751639.5	524.7	3.49	6.51	3.25
YES								
L0014536	0	0.38060E-06	471066.3	3751625.5	524.4	3.49	6.51	3.25
YES								
L0014537	0	0.38060E-06	471066.4	3751611.5	523.9	3.49	6.51	3.25
YES								
L0014538	0	0.38060E-06	471066.6	3751597.5	523.8	3.49	6.51	3.25
YES								
L0014539	0	0.38060E-06	471066.7	3751583.5	523.8	3.49	6.51	3.25
YES								
L0014540	0	0.38060E-06	471066.8	3751569.5	523.8	3.49	6.51	3.25
YES								
L0014541	0	0.38060E-06	471067.0	3751555.5	523.9	3.49	6.51	3.25
YES								
L0014542	0	0.38060E-06	471067.1	3751541.5	523.7	3.49	6.51	3.25
YES								
L0014543	0	0.38060E-06	471067.2	3751527.5	523.2	3.49	6.51	3.25
YES								
L0014544	0	0.38060E-06	471067.3	3751513.5	522.6	3.49	6.51	3.25
YES								

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L0014545          0    0.38060E-06   471080.9 3751513.1   522.8      3.49      6.51      3.25
 YES
L0014546          0    0.38060E-06   471094.9 3751513.2   523.0      3.49      6.51      3.25
 YES
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR VARY							
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

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```
L0014547          0    0.38060E-06   471108.9 3751513.3   523.3      3.49      6.51      3.25
 YES
L0014548          0    0.38060E-06   471122.9 3751513.4   523.8      3.49      6.51      3.25
 YES
L0014549          0    0.38060E-06   471136.9 3751513.5   524.2      3.49      6.51      3.25
 YES
L0014550          0    0.38060E-06   471150.9 3751513.6   524.7      3.49      6.51      3.25
 YES
L0014551          0    0.38060E-06   471164.9 3751513.7   525.3      3.49      6.51      3.25
 YES
L0014552          0    0.38060E-06   471178.9 3751513.8   526.2      3.49      6.51      3.25
 YES
L0014553          0    0.38060E-06   471192.9 3751514.0   527.0      3.49      6.51      3.25
 YES
L0014554          0    0.38060E-06   471206.9 3751514.1   527.5      3.49      6.51      3.25
 YES
L0014555          0    0.38060E-06   471220.9 3751514.2   528.0      3.49      6.51      3.25
 YES
L0014556          0    0.38060E-06   471234.9 3751514.3   528.5      3.49      6.51      3.25
 YES
L0014557          0    0.38060E-06   471248.9 3751514.4   529.0      3.49      6.51      3.25
 YES
L0014558          0    0.38060E-06   471262.9 3751514.5   529.4      3.49      6.51      3.25
 YES
L0014559          0    0.38060E-06   471276.9 3751514.6   529.9      3.49      6.51      3.25
 YES
L0014560          0    0.38060E-06   471290.9 3751514.7   530.0      3.49      6.51      3.25
 YES
L0014561          0    0.38060E-06   471304.9 3751514.8   530.0      3.49      6.51      3.25
 YES
L0014562          0    0.38060E-06   471318.9 3751514.9   530.4      3.49      6.51      3.25
 YES
L0014563          0    0.38060E-06   471332.9 3751515.0   530.9      3.49      6.51      3.25
 YES
L0014564          0    0.38060E-06   471346.9 3751515.1   532.1      3.49      6.51      3.25
 YES
L0014565          0    0.38060E-06   471360.9 3751515.2   533.9      3.49      6.51      3.25
 YES
L0014566          0    0.38060E-06   471374.9 3751515.3   535.2      3.49      6.51      3.25
 YES
L0014567          0    0.38060E-06   471388.9 3751515.4   535.7      3.49      6.51      3.25
 YES
```

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L0014568          0   0.38060E-06  471402.9 3751515.5   535.9     3.49      6.51      3.25
   YES
L0014569          0   0.38060E-06  471416.9 3751515.6   535.5     3.49      6.51      3.25
   YES
L0014570          0   0.38060E-06  471430.9 3751515.7   535.0     3.49      6.51      3.25
   YES
L0014571          0   0.76350E-06  471444.9 3751517.4   534.5     3.49      6.51      3.25
   YES
L0014572          0   0.76350E-06  471458.9 3751517.5   534.0     3.49      6.51      3.25
   YES
L0014573          0   0.76350E-06  471472.9 3751517.6   533.5     3.49      6.51      3.25
   YES
L0014574          0   0.76350E-06  471486.9 3751517.7   533.0     3.49      6.51      3.25
   YES
L0014575          0   0.76350E-06  471500.9 3751517.8   532.2     3.49      6.51      3.25
   YES
L0014576          0   0.76350E-06  471514.9 3751517.9   531.3     3.49      6.51      3.25
   YES
L0014577          0   0.76350E-06  471528.9 3751518.0   530.7     3.49      6.51      3.25
   YES
L0014578          0   0.76350E-06  471542.9 3751518.1   530.2     3.49      6.51      3.25
   YES
L0014579          0   0.76350E-06  471556.9 3751518.2   530.0     3.49      6.51      3.25
   YES
L0014580          0   0.76350E-06  471570.9 3751518.3   530.0     3.49      6.51      3.25
   YES
L0014581          0   0.76350E-06  471584.9 3751518.4   530.0     3.49      6.51      3.25
   YES
L0014582          0   0.76350E-06  471598.9 3751518.5   530.0     3.49      6.51      3.25
   YES
L0014583          0   0.76350E-06  471612.9 3751518.6   530.0     3.49      6.51      3.25
   YES
L0014584          0   0.76350E-06  471626.9 3751518.7   530.0     3.49      6.51      3.25
   YES
L0014585          0   0.76350E-06  471640.9 3751518.8   529.9     3.49      6.51      3.25
   YES
L0014586          0   0.76350E-06  471654.9 3751518.9   529.4     3.49      6.51      3.25
   YES
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)

```
L0014587          0   0.76350E-06  471668.9 3751519.0   529.0     3.49      6.51      3.25
   YES
L0014588          0   0.76350E-06  471682.9 3751519.1   529.5     3.49      6.51      3.25
   YES
L0014589          0   0.76350E-06  471696.9 3751519.2   530.0     3.49      6.51      3.25
   YES
L0014590          0   0.76350E-06  471710.9 3751519.3   530.8     3.49      6.51      3.25
   YES
```

L0014591	0	0.76350E-06	471724.9	3751519.4	531.7	3.49	6.51	3.25
YES								
L0014592	0	0.76350E-06	471738.9	3751519.5	532.6	3.49	6.51	3.25
YES								
L0014593	0	0.76350E-06	471752.9	3751519.6	533.6	3.49	6.51	3.25
YES								
L0014594	0	0.76350E-06	471766.9	3751519.7	534.2	3.49	6.51	3.25
YES								
L0014595	0	0.76350E-06	471780.9	3751519.8	534.7	3.49	6.51	3.25
YES								
L0014596	0	0.76350E-06	471786.4	3751528.2	534.9	3.49	6.51	3.25
YES								
L0014597	0	0.76350E-06	471786.3	3751542.2	534.9	3.49	6.51	3.25
YES								
L0014598	0	0.76350E-06	471786.2	3751556.2	535.5	3.49	6.51	3.25
YES								
L0014599	0	0.76350E-06	471786.0	3751570.2	536.4	3.49	6.51	3.25
YES								
L0014600	0	0.76350E-06	471785.9	3751584.2	536.8	3.49	6.51	3.25
YES								
L0014601	0	0.76350E-06	471785.8	3751598.2	536.8	3.49	6.51	3.25
YES								
L0014602	0	0.76350E-06	471785.6	3751612.2	536.6	3.49	6.51	3.25
YES								
L0014603	0	0.76350E-06	471785.5	3751626.2	536.2	3.49	6.51	3.25
YES								
L0014604	0	0.76350E-06	471785.4	3751640.2	536.0	3.49	6.51	3.25
YES								
L0014605	0	0.76350E-06	471785.3	3751654.2	536.4	3.49	6.51	3.25
YES								
L0014606	0	0.76350E-06	471785.1	3751668.2	536.8	3.49	6.51	3.25
YES								
L0014607	0	0.76350E-06	471785.0	3751682.2	536.8	3.49	6.51	3.25
YES								
L0014608	0	0.76350E-06	471784.9	3751696.2	536.8	3.49	6.51	3.25
YES								
L0014609	0	0.76350E-06	471784.7	3751710.2	536.8	3.49	6.51	3.25
YES								
L0014610	0	0.76350E-06	471784.6	3751724.2	536.8	3.49	6.51	3.25
YES								
L0014611	0	0.76350E-06	471784.5	3751738.2	536.8	3.49	6.51	3.25
YES								
L0014612	0	0.76350E-06	471784.3	3751752.2	536.8	3.49	6.51	3.25
YES								
L0014613	0	0.76350E-06	471784.2	3751766.2	537.1	3.49	6.51	3.25
YES								
L0014614	0	0.76350E-06	471784.1	3751780.2	537.6	3.49	6.51	3.25
YES								
L0014615	0	0.76350E-06	471783.9	3751794.2	537.6	3.49	6.51	3.25
YES								
L0014616	0	0.76350E-06	471783.8	3751808.2	537.2	3.49	6.51	3.25
YES								
L0014617	0	0.76350E-06	471783.7	3751822.2	537.0	3.49	6.51	3.25
YES								
L0014618	0	0.76350E-06	471783.5	3751836.2	537.0	3.49	6.51	3.25
YES								
L0014619	0	0.76350E-06	471783.4	3751850.2	536.9	3.49	6.51	3.25
YES								
L0014620	0	0.76350E-06	471783.3	3751864.2	536.4	3.49	6.51	3.25
YES								
L0014621	0	0.76350E-06	471783.2	3751878.2	535.9	3.49	6.51	3.25
YES								
L0014622	0	0.12640E-06	473442.3	3752047.2	475.6	3.49	6.51	3.25
YES								
L0014623	0	0.12640E-06	473440.2	3752061.0	476.0	3.49	6.51	3.25
YES								

SOURCE ID	0	0.12640E-06	473438.1	3752074.8	476.0	3.49	6.51	3.25
L0014624	0	0.12640E-06	473438.1	3752074.8	476.0	3.49	6.51	3.25
YES								
L0014625	0	0.12640E-06	473435.9	3752088.7	475.8	3.49	6.51	3.25
YES								
L0014626	0	0.12640E-06	473432.4	3752102.2	475.4	3.49	6.51	3.25
YES								

▥ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

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L0014627	0	0.12640E-06	473428.4	3752115.6	475.0	3.49	6.51	3.25
YES								
L0014628	0	0.12640E-06	473424.3	3752129.0	474.8	3.49	6.51	3.25
YES								
L0014629	0	0.12640E-06	473420.2	3752142.4	474.7	3.49	6.51	3.25
YES								
L0014630	0	0.12640E-06	473416.0	3752155.7	474.8	3.49	6.51	3.25
YES								
L0014631	0	0.12640E-06	473409.2	3752167.9	475.0	3.49	6.51	3.25
YES								
L0014632	0	0.12640E-06	473402.4	3752180.2	475.2	3.49	6.51	3.25
YES								
L0014633	0	0.12640E-06	473395.5	3752192.4	475.5	3.49	6.51	3.25
YES								
L0014634	0	0.12640E-06	473388.5	3752204.5	475.7	3.49	6.51	3.25
YES								
L0014635	0	0.12640E-06	473381.6	3752216.7	475.6	3.49	6.51	3.25
YES								
L0014636	0	0.12640E-06	473373.1	3752227.8	475.4	3.49	6.51	3.25
YES								
L0014637	0	0.12640E-06	473364.5	3752238.9	475.5	3.49	6.51	3.25
YES								
L0014638	0	0.12640E-06	473356.0	3752250.0	475.9	3.49	6.51	3.25
YES								
L0014639	0	0.12640E-06	473347.5	3752261.1	476.0	3.49	6.51	3.25
YES								
L0014640	0	0.12640E-06	473338.9	3752272.2	476.0	3.49	6.51	3.25
YES								
L0014641	0	0.12640E-06	473330.4	3752283.3	476.0	3.49	6.51	3.25
YES								
L0014642	0	0.12640E-06	473321.9	3752294.4	476.0	3.49	6.51	3.25
YES								
L0014643	0	0.12640E-06	473313.3	3752305.5	475.7	3.49	6.51	3.25
YES								
L0014644	0	0.12640E-06	473304.8	3752316.6	475.3	3.49	6.51	3.25
YES								
L0014645	0	0.12640E-06	473296.3	3752327.7	475.0	3.49	6.51	3.25
YES								
L0014646	0	0.12640E-06	473287.7	3752338.8	475.0	3.49	6.51	3.25
YES								

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0014647	0	0.12640E-06	473279.2	3752349.8	475.1	3.49	6.51	3.25
YES								
L0014648	0	0.12640E-06	473270.6	3752360.9	474.9	3.49	6.51	3.25
YES								
L0014649	0	0.12640E-06	473262.0	3752372.0	474.5	3.49	6.51	3.25
YES								
L0014650	0	0.12640E-06	473253.4	3752383.0	474.3	3.49	6.51	3.25
YES								
L0014651	0	0.12640E-06	473244.8	3752394.1	474.2	3.49	6.51	3.25
YES								
L0014652	0	0.12640E-06	473236.2	3752405.1	474.2	3.49	6.51	3.25
YES								
L0014653	0	0.12640E-06	473227.6	3752416.2	474.1	3.49	6.51	3.25
YES								
L0014654	0	0.12640E-06	473219.0	3752427.2	474.4	3.49	6.51	3.25
YES								
L0014655	0	0.12640E-06	473210.5	3752438.3	474.6	3.49	6.51	3.25
YES								
L0014656	0	0.12640E-06	473201.9	3752449.3	474.9	3.49	6.51	3.25
YES								
L0014657	0	0.12640E-06	473193.3	3752460.4	475.2	3.49	6.51	3.25
YES								
L0014658	0	0.12640E-06	473184.8	3752471.5	475.5	3.49	6.51	3.25
YES								
L0014659	0	0.12640E-06	473176.3	3752482.6	475.6	3.49	6.51	3.25
YES								
L0014660	0	0.12640E-06	473167.7	3752493.7	475.4	3.49	6.51	3.25
YES								
L0014661	0	0.12640E-06	473159.2	3752504.8	475.1	3.49	6.51	3.25
YES								
L0014662	0	0.12640E-06	473150.7	3752515.9	474.7	3.49	6.51	3.25
YES								
L0014663	0	0.12640E-06	473142.1	3752527.0	474.3	3.49	6.51	3.25
YES								
L0014664	0	0.12640E-06	473133.6	3752538.1	473.8	3.49	6.51	3.25
YES								
L0014665	0	0.12640E-06	473125.1	3752549.2	473.3	3.49	6.51	3.25
YES								
L0014666	0	0.12640E-06	473116.5	3752560.3	473.1	3.49	6.51	3.25
YES								

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0014667	0	0.12640E-06	473108.2	3752571.6	472.8	3.49	6.51	3.25
YES								
L0014668	0	0.12640E-06	473100.4	3752583.2	472.3	3.49	6.51	3.25
YES								
L0014669	0	0.12640E-06	473092.6	3752594.8	472.0	3.49	6.51	3.25
YES								

L0014670 YES	0	0.12640E-06	473085.3	3752606.8	472.0	3.49	6.51	3.25
L0014671 YES	0	0.12640E-06	473078.3	3752618.9	472.0	3.49	6.51	3.25
L0014672 YES	0	0.12640E-06	473071.3	3752631.0	471.9	3.49	6.51	3.25
L0014673 YES	0	0.12640E-06	473064.2	3752643.1	471.7	3.49	6.51	3.25
L0014674 YES	0	0.12640E-06	473057.2	3752655.2	471.8	3.49	6.51	3.25
L0014675 YES	0	0.12640E-06	473050.2	3752667.3	472.0	3.49	6.51	3.25
L0014676 YES	0	0.12640E-06	473045.4	3752680.5	472.0	3.49	6.51	3.25
L0014677 YES	0	0.12640E-06	473040.9	3752693.7	471.8	3.49	6.51	3.25
L0014678 YES	0	0.12640E-06	473036.4	3752707.0	471.6	3.49	6.51	3.25
L0014679 YES	0	0.12640E-06	473031.9	3752720.2	471.5	3.49	6.51	3.25
L0014680 YES	0	0.12640E-06	473027.4	3752733.5	471.3	3.49	6.51	3.25
L0014681 YES	0	0.12640E-06	473024.1	3752747.1	471.0	3.49	6.51	3.25
L0014682 YES	0	0.12640E-06	473020.8	3752760.7	471.0	3.49	6.51	3.25
L0014683 YES	0	0.12640E-06	473017.6	3752774.3	471.0	3.49	6.51	3.25
L0014684 YES	0	0.12640E-06	473014.4	3752787.9	470.6	3.49	6.51	3.25
L0014685 YES	0	0.12640E-06	473012.3	3752801.7	470.2	3.49	6.51	3.25
L0014686 YES	0	0.12640E-06	473011.8	3752815.7	470.0	3.49	6.51	3.25
L0014687 YES	0	0.12640E-06	473011.3	3752829.7	470.0	3.49	6.51	3.25
L0014688 YES	0	0.12640E-06	473010.8	3752843.7	469.8	3.49	6.51	3.25
L0014689 YES	0	0.12640E-06	473010.3	3752857.7	469.3	3.49	6.51	3.25
L0014690 YES	0	0.12640E-06	473009.9	3752871.7	469.0	3.49	6.51	3.25
L0014691 YES	0	0.12640E-06	473009.7	3752885.7	469.0	3.49	6.51	3.25
L0014692 YES	0	0.12640E-06	473009.5	3752899.7	469.0	3.49	6.51	3.25
L0014693 YES	0	0.12640E-06	473009.3	3752913.7	469.2	3.49	6.51	3.25
L0014694 YES	0	0.12640E-06	473009.1	3752927.7	469.3	3.49	6.51	3.25
L0014695 YES	0	0.12640E-06	473008.9	3752941.7	469.2	3.49	6.51	3.25
L0014696 YES	0	0.12640E-06	473008.7	3752955.7	469.0	3.49	6.51	3.25
L0014697 YES	0	0.12640E-06	473008.6	3752969.7	469.0	3.49	6.51	3.25
L0014698 YES	0	0.12640E-06	473008.4	3752983.7	469.0	3.49	6.51	3.25
L0014699 YES	0	0.12640E-06	473008.2	3752997.7	469.1	3.49	6.51	3.25
L0014700 YES	0	0.12640E-06	473008.0	3753011.7	469.3	3.49	6.51	3.25
L0014701 YES	0	0.12640E-06	473007.8	3753025.7	469.4	3.49	6.51	3.25
L0014702 YES	0	0.12640E-06	473007.6	3753039.7	469.4	3.49	6.51	3.25

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L0014703            0    0.12640E-06   473007.4 3753053.7   469.4     3.49     6.51     3.25
  YES
L0014704            0    0.12640E-06   473007.3 3753067.7   469.4     3.49     6.51     3.25
  YES
L0014705            0    0.12640E-06   473007.1 3753081.7   469.5     3.49     6.51     3.25
  YES
L0014706            0    0.12640E-06   473006.8 3753095.6   469.8     3.49     6.51     3.25
  YES
```

🏠 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
               URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
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L0014707   0   0.12640E-06   473006.1 3753109.6   469.9   3.49   6.51   3.25
  YES
L0014708   0   0.12640E-06   473005.5 3753123.6   469.7   3.49   6.51   3.25
  YES
L0014709   0   0.12640E-06   473004.9 3753137.6   469.5   3.49   6.51   3.25
  YES
L0014710   0   0.12640E-06   473004.3 3753151.6   469.3   3.49   6.51   3.25
  YES
L0014711   0   0.12640E-06   473003.6 3753165.6   469.0   3.49   6.51   3.25
  YES
L0014712   0   0.12640E-06   473003.0 3753179.6   468.6   3.49   6.51   3.25
  YES
L0014713   0   0.12640E-06   473002.4 3753193.6   468.1   3.49   6.51   3.25
  YES
L0014714   0   0.12640E-06   473001.8 3753207.5   466.8   3.49   6.51   3.25
  YES
L0014715   0   0.12640E-06   473001.1 3753221.5   465.2   3.49   6.51   3.25
  YES
L0014716   0   0.12640E-06   473000.5 3753235.5   464.2   3.49   6.51   3.25
  YES
L0014717   0   0.12640E-06   472999.9 3753249.5   463.4   3.49   6.51   3.25
  YES
L0014718   0   0.12640E-06   472999.3 3753263.5   462.5   3.49   6.51   3.25
  YES
L0014719   0   0.12640E-06   472998.6 3753277.5   461.6   3.49   6.51   3.25
  YES
L0014720   0   0.12640E-06   472998.0 3753291.5   460.7   3.49   6.51   3.25
  YES
L0014721   0   0.12640E-06   472997.4 3753305.4   459.7   3.49   6.51   3.25
  YES
L0014722   0   0.12640E-06   472994.5 3753319.1   458.9   3.49   6.51   3.25
  YES
L0014723   0   0.12640E-06   472991.4 3753332.8   457.9   3.49   6.51   3.25
  YES
L0014724   0   0.12640E-06   472988.4 3753346.4   457.0   3.49   6.51   3.25
  YES
L0014725   0   0.12640E-06   472985.3 3753360.1   457.0   3.49   6.51   3.25
  YES
```

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L0014726          0    0.12640E-06  472982.3 3753373.8   457.0     3.49      6.51      3.25
YES
L0014727          0    0.12640E-06  472976.7 3753386.4   457.3     3.49      6.51      3.25
YES
L0014728          0    0.12640E-06  472969.2 3753398.2   457.7     3.49      6.51      3.25
YES
L0014729          0    0.12640E-06  472961.6 3753410.0   457.9     3.49      6.51      3.25
YES
L0014730          0    0.12640E-06  472954.1 3753421.8   457.3     3.49      6.51      3.25
YES
L0014731          0    0.12640E-06  472946.5 3753433.6   456.7     3.49      6.51      3.25
YES
L0014732          0    0.12640E-06  472939.0 3753445.4   457.5     3.49      6.51      3.25
YES
L0014733          0    0.12640E-06  472931.5 3753457.2   459.9     3.49      6.51      3.25
YES
L0014734          0    0.12640E-06  472922.2 3753467.5   462.8     3.49      6.51      3.25
YES
L0014735          0    0.12640E-06  472912.0 3753477.1   464.4     3.49      6.51      3.25
YES
L0014736          0    0.12640E-06  472901.7 3753486.6   465.6     3.49      6.51      3.25
YES
L0014737          0    0.12640E-06  472891.5 3753496.2   465.5     3.49      6.51      3.25
YES
L0014738          0    0.12640E-06  472881.3 3753505.8   464.2     3.49      6.51      3.25
YES
L0014739          0    0.12640E-06  472871.0 3753515.3   463.4     3.49      6.51      3.25
YES
L0014740          0    0.12640E-06  472860.2 3753524.1   462.8     3.49      6.51      3.25
YES
L0014741          0    0.12640E-06  472848.8 3753532.3   462.4     3.49      6.51      3.25
YES
L0014742          0    0.12640E-06  472837.4 3753540.4   462.5     3.49      6.51      3.25
YES
L0014743          0    0.12640E-06  472826.0 3753548.6   463.1     3.49      6.51      3.25
YES
L0014744          0    0.12640E-06  472814.7 3753556.7   463.8     3.49      6.51      3.25
YES
L0014745          0    0.12640E-06  472803.3 3753564.9   464.9     3.49      6.51      3.25
YES
L0014746          0    0.12640E-06  472791.9 3753573.0   465.6     3.49      6.51      3.25
YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)   BY
- -
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L0014747   0   0.12640E-06 472780.5 3753581.2   465.8   3.49   6.51   3.25
YES
L0014748   0   0.12640E-06 472769.1 3753589.3   465.6   3.49   6.51   3.25
YES

```
L0014749        0    0.12640E-06   472757.8 3753597.5     465.0       3.49      6.51      3.25
YES
L0014750        0    0.12640E-06   472746.4 3753605.7     464.3       3.49      6.51      3.25
YES
L0014751        0    0.12640E-06   472735.8 3753614.8     463.6       3.49      6.51      3.25
YES
L0014752        0    0.12640E-06   472725.6 3753624.4     462.7       3.49      6.51      3.25
YES
L0014753        0    0.12640E-06   472715.4 3753634.0     461.4       3.49      6.51      3.25
YES
L0014754        0    0.12640E-06   472705.2 3753643.6     459.7       3.49      6.51      3.25
YES
L0014755        0    0.12640E-06   472695.0 3753653.2     459.3       3.49      6.51      3.25
YES
L0014756        0    0.12640E-06   472685.4 3753663.2     459.8       3.49      6.51      3.25
YES
L0014757        0    0.12640E-06   472678.1 3753675.2     460.3       3.49      6.51      3.25
YES
L0014758        0    0.12640E-06   472670.8 3753687.1     460.7       3.49      6.51      3.25
YES
L0014759        0    0.12640E-06   472663.5 3753699.0     461.9       3.49      6.51      3.25
YES
L0014760        0    0.12640E-06   472656.2 3753711.0     463.0       3.49      6.51      3.25
YES
L0014761        0    0.12640E-06   472649.6 3753723.3     463.2       3.49      6.51      3.25
YES
L0014762        0    0.12640E-06   472644.6 3753736.4     463.5       3.49      6.51      3.25
YES
L0014763        0    0.12640E-06   472639.6 3753749.4     463.8       3.49      6.51      3.25
YES
L0014764        0    0.12640E-06   472634.6 3753762.5     464.0       3.49      6.51      3.25
YES
L0014765        0    0.12640E-06   472629.5 3753775.6     464.0       3.49      6.51      3.25
YES
L0014766        0    0.12640E-06   472627.0 3753789.3     463.9       3.49      6.51      3.25
YES
L0014767        0    0.12640E-06   472625.1 3753803.2     463.7       3.49      6.51      3.25
YES
L0014768        0    0.12640E-06   472623.2 3753817.0     463.6       3.49      6.51      3.25
YES
L0014769        0    0.12640E-06   472621.2 3753830.9     463.4       3.49      6.51      3.25
YES
L0014770        0    0.12640E-06   472620.7 3753844.9     463.2       3.49      6.51      3.25
YES
L0014771        0    0.12640E-06   472620.4 3753858.9     463.0       3.49      6.51      3.25
YES
L0014772        0    0.12640E-06   472620.0 3753872.9     462.8       3.49      6.51      3.25
YES
L0014773        0    0.12640E-06   472619.7 3753886.9     462.7       3.49      6.51      3.25
YES
L0014774        0    0.12640E-06   472619.3 3753900.8     462.8       3.49      6.51      3.25
YES
L0014775        0    0.12640E-06   472619.0 3753914.8     463.0       3.49      6.51      3.25
YES
L0014776        0    0.12640E-06   472618.7 3753928.8     463.0       3.49      6.51      3.25
YES
L0014777        0    0.12640E-06   472618.3 3753942.8     463.0       3.49      6.51      3.25
YES
L0014778        0    0.12640E-06   472618.0 3753956.8     463.1       3.49      6.51      3.25
YES
L0014779        0    0.12640E-06   472617.6 3753970.8     463.3       3.49      6.51      3.25
YES
L0014780        0    0.12640E-06   472616.9 3753984.8     463.6       3.49      6.51      3.25
YES
L0014781        0    0.12640E-06   472616.3 3753998.8     463.9       3.49      6.51      3.25
YES
```

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L0014782         0   0.12640E-06  472615.6 3754012.8   464.1     3.49      6.51      3.25
   YES
L0014783         0   0.12640E-06  472615.0 3754026.8   464.3     3.49      6.51      3.25
   YES
L0014784         0   0.12640E-06  472614.3 3754040.8   464.6     3.49      6.51      3.25
   YES
L0014785         0   0.12640E-06  472613.6 3754054.7   464.8     3.49      6.51      3.25
   YES
L0014786         0   0.12640E-06  472613.0 3754068.7   465.0     3.49      6.51      3.25
   YES
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0014787 YES	0	0.12640E-06	472612.3	3754082.7	465.2	3.49	6.51	3.25
L0014788 YES	0	0.12640E-06	472611.7	3754096.7	465.4	3.49	6.51	3.25
L0014789 YES	0	0.12640E-06	472611.0	3754110.7	465.4	3.49	6.51	3.25
L0014790 YES	0	0.12640E-06	472610.3	3754124.7	465.4	3.49	6.51	3.25
L0014791 YES	0	0.12640E-06	472609.7	3754138.6	465.3	3.49	6.51	3.25
L0014792 YES	0	0.12640E-06	472609.0	3754152.6	465.3	3.49	6.51	3.25
L0014793 YES	0	0.12640E-06	472608.4	3754166.6	465.3	3.49	6.51	3.25
L0014794 YES	0	0.12640E-06	472607.7	3754180.6	465.3	3.49	6.51	3.25
L0014795 YES	0	0.12640E-06	472607.0	3754194.6	465.0	3.49	6.51	3.25
L0014796 YES	0	0.12640E-06	472606.4	3754208.6	464.5	3.49	6.51	3.25
L0014797 YES	0	0.12640E-06	472605.7	3754222.5	464.2	3.49	6.51	3.25
L0014798 YES	0	0.12640E-06	472605.1	3754236.5	464.2	3.49	6.51	3.25
L0014799 YES	0	0.12640E-06	472604.4	3754250.5	464.0	3.49	6.51	3.25
L0014800 YES	0	0.12640E-06	472603.7	3754264.5	463.5	3.49	6.51	3.25
L0014801 YES	0	0.12640E-06	472603.1	3754278.5	463.2	3.49	6.51	3.25
L0014802 YES	0	0.12640E-06	472602.4	3754292.5	463.6	3.49	6.51	3.25
L0014803 YES	0	0.12640E-06	472601.8	3754306.5	464.0	3.49	6.51	3.25
L0014804 YES	0	0.12640E-06	472601.1	3754320.4	464.0	3.49	6.51	3.25

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L0014805          0    0.12640E-06   472600.5 3754334.4    464.0     3.49     6.51     3.25
YES
L0014806          0    0.12640E-06   472599.8 3754348.4    464.0     3.49     6.51     3.25
YES
L0014807          0    0.12640E-06   472599.1 3754362.4    464.0     3.49     6.51     3.25
YES
L0014808          0    0.12640E-06   472598.6 3754376.4    464.0     3.49     6.51     3.25
YES
L0014809          0    0.12640E-06   472598.0 3754390.4    464.0     3.49     6.51     3.25
YES
L0014810          0    0.12640E-06   472597.4 3754404.4    464.3     3.49     6.51     3.25
YES
L0014811          0    0.12640E-06   472596.8 3754418.3    464.8     3.49     6.51     3.25
YES
L0014812          0    0.12640E-06   472596.3 3754432.3    465.0     3.49     6.51     3.25
YES
L0014813          0    0.12640E-06   472595.7 3754446.3    465.0     3.49     6.51     3.25
YES
L0014814          0    0.12640E-06   472595.1 3754460.3    465.1     3.49     6.51     3.25
YES
L0014815          0    0.12640E-06   472594.5 3754474.3    465.6     3.49     6.51     3.25
YES
L0014816          0    0.12640E-06   472593.9 3754488.3    466.0     3.49     6.51     3.25
YES
L0014817          0    0.12640E-06   472593.4 3754502.3    466.0     3.49     6.51     3.25
YES
L0014818          0    0.12640E-06   472592.8 3754516.3    466.0     3.49     6.51     3.25
YES
L0014819          0    0.12640E-06   472592.2 3754530.3    466.0     3.49     6.51     3.25
YES
L0014820          0    0.12640E-06   472591.6 3754544.2    466.0     3.49     6.51     3.25
YES
L0014821          0    0.12640E-06   472591.1 3754558.2    466.0     3.49     6.51     3.25
YES
L0014822          0    0.12640E-06   472590.5 3754572.2    466.0     3.49     6.51     3.25
YES
L0014823          0    0.12640E-06   472589.9 3754586.2    466.0     3.49     6.51     3.25
YES
L0014824          0    0.12640E-06   472589.3 3754600.2    466.0     3.49     6.51     3.25
YES
L0014825          0    0.12640E-06   472588.8 3754614.2    466.0     3.49     6.51     3.25
YES
L0014826          0    0.12640E-06   472588.2 3754628.2    466.0     3.49     6.51     3.25
YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
            URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
  SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - - -


```
L0014827          0    0.12640E-06   472587.6 3754642.2    466.0     3.49     6.51     3.25
YES
```

L0014828	0	0.12640E-06	472587.0	3754656.1	466.0	3.49	6.51	3.25
YES								
L0014829	0	0.25330E-06	473444.2	3752033.9	475.2	3.49	6.51	3.25
YES								
L0014830	0	0.25330E-06	473445.7	3752019.9	475.1	3.49	6.51	3.25
YES								
L0014831	0	0.25330E-06	473447.2	3752006.0	475.2	3.49	6.51	3.25
YES								
L0014832	0	0.25330E-06	473447.3	3751992.1	475.3	3.49	6.51	3.25
YES								
L0014833	0	0.25330E-06	473446.2	3751978.1	475.2	3.49	6.51	3.25
YES								
L0014834	0	0.25330E-06	473445.1	3751964.2	475.3	3.49	6.51	3.25
YES								
L0014835	0	0.25330E-06	473444.0	3751950.2	476.2	3.49	6.51	3.25
YES								
L0014836	0	0.25330E-06	473442.8	3751936.2	477.0	3.49	6.51	3.25
YES								
L0014837	0	0.25330E-06	473441.7	3751922.3	476.5	3.49	6.51	3.25
YES								
L0014838	0	0.25330E-06	473439.7	3751908.5	476.1	3.49	6.51	3.25
YES								
L0014839	0	0.25330E-06	473436.5	3751894.8	476.1	3.49	6.51	3.25
YES								
L0014840	0	0.25330E-06	473433.4	3751881.2	476.2	3.49	6.51	3.25
YES								
L0014841	0	0.25330E-06	473430.2	3751867.6	476.3	3.49	6.51	3.25
YES								
L0014842	0	0.25330E-06	473427.0	3751853.9	476.4	3.49	6.51	3.25
YES								
L0014843	0	0.25330E-06	473423.9	3751840.3	476.5	3.49	6.51	3.25
YES								
L0014844	0	0.25330E-06	473420.7	3751826.7	476.6	3.49	6.51	3.25
YES								
L0014845	0	0.25330E-06	473418.4	3751812.9	476.6	3.49	6.51	3.25
YES								
L0014846	0	0.25330E-06	473416.7	3751799.0	476.3	3.49	6.51	3.25
YES								
L0014847	0	0.25330E-06	473415.0	3751785.1	476.0	3.49	6.51	3.25
YES								
L0014848	0	0.25330E-06	473413.3	3751771.2	476.4	3.49	6.51	3.25
YES								
L0014849	0	0.25330E-06	473411.7	3751757.3	476.9	3.49	6.51	3.25
YES								
L0014850	0	0.25330E-06	473412.4	3751743.3	477.4	3.49	6.51	3.25
YES								
L0014851	0	0.25330E-06	473413.2	3751729.3	477.8	3.49	6.51	3.25
YES								
L0014852	0	0.25330E-06	473413.9	3751715.3	478.2	3.49	6.51	3.25
YES								
L0014853	0	0.25330E-06	473414.7	3751701.4	478.7	3.49	6.51	3.25
YES								
L0014854	0	0.25330E-06	473416.9	3751687.5	479.1	3.49	6.51	3.25
YES								
L0014855	0	0.25330E-06	473419.2	3751673.7	479.4	3.49	6.51	3.25
YES								
L0014856	0	0.25330E-06	473421.4	3751659.9	479.8	3.49	6.51	3.25
YES								
L0014857	0	0.25330E-06	473423.7	3751646.1	480.2	3.49	6.51	3.25
YES								
L0014858	0	0.25330E-06	473427.0	3751632.5	480.4	3.49	6.51	3.25
YES								
L0014859	0	0.25330E-06	473430.9	3751619.1	480.3	3.49	6.51	3.25
YES								
L0014860	0	0.25330E-06	473434.9	3751605.6	480.2	3.49	6.51	3.25
YES								

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L0014861        0   0.25330E-06  473439.9 3751592.6   480.0     3.49     6.51     3.25
   YES
L0014862        0   0.25330E-06  473445.3 3751579.7   480.0     3.49     6.51     3.25
   YES
L0014863        0   0.25330E-06  473450.7 3751566.8   480.0     3.49     6.51     3.25
   YES
L0014864        0   0.25330E-06  473456.1 3751553.8   480.0     3.49     6.51     3.25
   YES
L0014865        0   0.25330E-06  473461.5 3751540.9   480.1     3.49     6.51     3.25
   YES
L0014866        0   0.25330E-06  473466.9 3751528.0   480.1     3.49     6.51     3.25
   YES
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                         *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
               URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - -

```
L0014867        0   0.25330E-06  473472.3 3751515.1   480.1     3.49     6.51     3.25
   YES
L0014868        0   0.25330E-06  473477.9 3751502.2   480.5     3.49     6.51     3.25
   YES
L0014869        0   0.25330E-06  473483.7 3751489.5   480.9     3.49     6.51     3.25
   YES
L0014870        0   0.25330E-06  473489.5 3751476.8   481.0     3.49     6.51     3.25
   YES
L0014871        0   0.25330E-06  473495.3 3751464.0   481.0     3.49     6.51     3.25
   YES
L0014872        0   0.25330E-06  473501.2 3751451.3   481.2     3.49     6.51     3.25
   YES
L0014873        0   0.25330E-06  473507.0 3751438.6   481.6     3.49     6.51     3.25
   YES
L0014874        0   0.25330E-06  473512.8 3751425.9   482.0     3.49     6.51     3.25
   YES
L0014875        0   0.25330E-06  473519.1 3751413.4   482.2     3.49     6.51     3.25
   YES
L0014876        0   0.25330E-06  473525.9 3751401.1   482.1     3.49     6.51     3.25
   YES
L0014877        0   0.25330E-06  473532.6 3751388.8   482.3     3.49     6.51     3.25
   YES
L0014878        0   0.25330E-06  473539.3 3751376.6   482.7     3.49     6.51     3.25
   YES
L0014879        0   0.25330E-06  473546.1 3751364.3   483.0     3.49     6.51     3.25
   YES
L0014880        0   0.25330E-06  473552.8 3751352.0   483.1     3.49     6.51     3.25
   YES
L0014881        0   0.25330E-06  473559.6 3751339.8   483.0     3.49     6.51     3.25
   YES
L0014882        0   0.25330E-06  473566.5 3751327.6   483.2     3.49     6.51     3.25
   YES
L0014883        0   0.25330E-06  473573.7 3751315.6   483.4     3.49     6.51     3.25
   YES
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L0014884         0   0.25330E-06  473580.8 3751303.5   483.3    3.49    6.51    3.25
YES
L0014885         0   0.25330E-06  473588.0 3751291.5   483.1    3.49    6.51    3.25
YES
L0014886         0   0.25330E-06  473595.2 3751279.5   483.0    3.49    6.51    3.25
YES
L0014887         0   0.25330E-06  473602.4 3751267.5   483.3    3.49    6.51    3.25
YES
L0014888         0   0.25330E-06  473609.5 3751255.4   483.7    3.49    6.51    3.25
YES
L0014889         0   0.25330E-06  473616.7 3751243.4   484.0    3.49    6.51    3.25
YES
L0014890         0   0.25330E-06  473623.8 3751231.4   483.7    3.49    6.51    3.25
YES
L0014891         0   0.25330E-06  473630.9 3751219.3   483.2    3.49    6.51    3.25
YES
L0014892         0   0.25330E-06  473637.9 3751207.2   483.0    3.49    6.51    3.25
YES
L0014893         0   0.25330E-06  473645.0 3751195.1   482.9    3.49    6.51    3.25
YES
L0014894         0   0.25330E-06  473652.1 3751183.0   482.9    3.49    6.51    3.25
YES
L0014895         0   0.25330E-06  473659.1 3751170.9   482.7    3.49    6.51    3.25
YES
L0014896         0   0.25330E-06  473666.2 3751158.8   482.4    3.49    6.51    3.25
YES
L0014897         0   0.25330E-06  473673.2 3751146.7   482.2    3.49    6.51    3.25
YES
L0014898         0   0.25330E-06  473680.3 3751134.6   482.0    3.49    6.51    3.25
YES
L0014899         0   0.25330E-06  473687.3 3751122.6   481.8    3.49    6.51    3.25
YES
L0014900         0   0.25330E-06  473694.4 3751110.5   481.8    3.49    6.51    3.25
YES
L0014901         0   0.25330E-06  473701.5 3751098.4   482.0    3.49    6.51    3.25
YES
L0014902         0   0.25330E-06  473708.5 3751086.3   482.0    3.49    6.51    3.25
YES
L0014903         0   0.25330E-06  473715.6 3751074.2   481.9    3.49    6.51    3.25
YES
L0014904         0   0.25330E-06  473722.6 3751062.1   481.9    3.49    6.51    3.25
YES
L0014905         0   0.25330E-06  473729.7 3751050.0   481.6    3.49    6.51    3.25
YES
L0014906         0   0.25330E-06  473736.7 3751037.9   481.1    3.49    6.51    3.25
YES
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
  SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
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L0014907	0	0.25330E-06	473743.8	3751025.8	481.0	3.49	6.51	3.25
YES								
L0014908	0	0.25330E-06	473750.9	3751013.7	481.0	3.49	6.51	3.25
YES								
L0014909	0	0.25330E-06	473757.9	3751001.6	480.9	3.49	6.51	3.25
YES								
L0014910	0	0.25330E-06	473765.0	3750989.5	480.5	3.49	6.51	3.25
YES								
L0014911	0	0.25330E-06	473772.0	3750977.4	480.0	3.49	6.51	3.25
YES								
L0014912	0	0.25330E-06	473779.0	3750965.3	480.0	3.49	6.51	3.25
YES								
L0014913	0	0.25330E-06	473786.1	3750953.2	480.0	3.49	6.51	3.25
YES								
L0014914	0	0.25330E-06	473793.1	3750941.1	480.0	3.49	6.51	3.25
YES								
L0014915	0	0.25330E-06	473800.2	3750929.0	480.0	3.49	6.51	3.25
YES								
L0014916	0	0.25330E-06	473807.2	3750916.9	479.8	3.49	6.51	3.25
YES								
L0014917	0	0.25330E-06	473814.2	3750904.8	479.3	3.49	6.51	3.25
YES								
L0014918	0	0.25330E-06	473821.3	3750892.7	479.1	3.49	6.51	3.25
YES								
L0014919	0	0.25330E-06	473828.3	3750880.6	479.0	3.49	6.51	3.25
YES								
L0014920	0	0.25330E-06	473835.3	3750868.5	478.8	3.49	6.51	3.25
YES								
L0014921	0	0.25330E-06	473842.4	3750856.4	478.6	3.49	6.51	3.25
YES								
L0014922	0	0.25330E-06	473849.4	3750844.3	478.3	3.49	6.51	3.25
YES								
L0014923	0	0.25330E-06	473856.5	3750832.2	478.1	3.49	6.51	3.25
YES								
L0014924	0	0.25330E-06	473863.5	3750820.1	477.9	3.49	6.51	3.25
YES								
L0014925	0	0.25330E-06	473870.5	3750808.0	477.6	3.49	6.51	3.25
YES								
L0014926	0	0.25330E-06	473877.6	3750795.9	477.4	3.49	6.51	3.25
YES								
L0014927	0	0.25330E-06	473884.6	3750783.8	477.1	3.49	6.51	3.25
YES								
L0014928	0	0.25330E-06	473891.6	3750771.7	476.9	3.49	6.51	3.25
YES								
L0014929	0	0.25330E-06	473898.7	3750759.6	476.7	3.49	6.51	3.25
YES								
L0014930	0	0.25330E-06	473905.7	3750747.5	476.5	3.49	6.51	3.25
YES								
L0014931	0	0.25330E-06	473912.8	3750735.4	476.2	3.49	6.51	3.25
YES								
L0014932	0	0.25330E-06	473919.7	3750723.2	476.0	3.49	6.51	3.25
YES								
L0014933	0	0.25330E-06	473926.7	3750711.1	475.8	3.49	6.51	3.25
YES								
L0014934	0	0.25330E-06	473933.6	3750698.9	475.4	3.49	6.51	3.25
YES								
L0014935	0	0.25330E-06	473940.6	3750686.8	475.1	3.49	6.51	3.25
YES								
L0014936	0	0.25330E-06	473947.5	3750674.7	475.1	3.49	6.51	3.25
YES								
L0014937	0	0.25330E-06	473954.5	3750662.5	475.4	3.49	6.51	3.25
YES								
L0014938	0	0.25330E-06	473961.5	3750650.4	475.5	3.49	6.51	3.25
YES								
L0014939	0	0.25330E-06	473968.4	3750638.2	475.6	3.49	6.51	3.25
YES								

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L0014940          0   0.25330E-06  473975.4 3750626.1   475.7    3.49     6.51     3.25
YES
L0014941          0   0.25330E-06  473982.3 3750613.9   475.9    3.49     6.51     3.25
YES
L0014942          0   0.25330E-06  473989.3 3750601.8   475.8    3.49     6.51     3.25
YES
L0014943          0   0.25330E-06  473996.2 3750589.6   475.9    3.49     6.51     3.25
YES
L0014944          0   0.25330E-06  474003.2 3750577.5   476.0    3.49     6.51     3.25
YES
L0014945          0   0.25330E-06  474010.2 3750565.3   476.0    3.49     6.51     3.25
YES
L0014946          0   0.25330E-06  474017.1 3750553.2   476.0    3.49     6.51     3.25
YES
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                               *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
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L0014947          0   0.25330E-06  474024.1 3750541.0   476.0    3.49     6.51     3.25
YES
L0014948          0   0.25330E-06  474031.0 3750528.9   476.0    3.49     6.51     3.25
YES
L0014949          0   0.25330E-06  474036.0 3750515.8   476.0    3.49     6.51     3.25
YES
L0014950          0   0.25330E-06  474040.9 3750502.7   476.0    3.49     6.51     3.25
YES
L0014951          0   0.25330E-06  474045.7 3750489.5   476.0    3.49     6.51     3.25
YES
L0014952          0   0.25330E-06  474050.5 3750476.4   476.0    3.49     6.51     3.25
YES
L0014953          0   0.25330E-06  474055.4 3750463.2   476.0    3.49     6.51     3.25
YES
L0014954          0   0.25330E-06  474060.2 3750450.1   476.0    3.49     6.51     3.25
YES
L0014955          0   0.25330E-06  474065.0 3750437.0   476.0    3.49     6.51     3.25
YES
L0014956          0   0.25330E-06  474069.9 3750423.8   476.0    3.49     6.51     3.25
YES
L0014957          0   0.25330E-06  474074.5 3750410.6   475.8    3.49     6.51     3.25
YES
L0014958          0   0.25330E-06  474077.0 3750396.9   475.8    3.49     6.51     3.25
YES
L0014959          0   0.25330E-06  474079.5 3750383.1   475.7    3.49     6.51     3.25
YES
L0014960          0   0.25330E-06  474082.0 3750369.3   475.6    3.49     6.51     3.25
YES
L0014961          0   0.25330E-06  474084.4 3750355.5   475.5    3.49     6.51     3.25
YES
L0014962          0   0.25330E-06  474086.9 3750341.7   475.4    3.49     6.51     3.25
YES
```

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L0014963        0   0.25330E-06   474089.4 3750328.0    475.1     3.49     6.51     3.25
  YES
L0014964        0   0.25330E-06   474091.9 3750314.2    475.0     3.49     6.51     3.25
  YES
L0014965        0   0.25330E-06   474094.4 3750300.4    475.0     3.49     6.51     3.25
  YES
L0014966        0   0.25330E-06   474096.8 3750286.6    475.0     3.49     6.51     3.25
  YES
L0014967        0   0.25330E-06   474097.8 3750272.7    475.0     3.49     6.51     3.25
  YES
L0014968        0   0.25330E-06   474098.0 3750258.7    475.0     3.49     6.51     3.25
  YES
L0014969        0   0.25330E-06   474098.2 3750244.7    475.0     3.49     6.51     3.25
  YES
L0014970        0   0.25330E-06   474098.4 3750230.7    475.0     3.49     6.51     3.25
  YES
L0014971        0   0.25330E-06   474098.6 3750216.7    475.0     3.49     6.51     3.25
  YES
L0014972        0   0.25330E-06   474098.8 3750202.7    475.0     3.49     6.51     3.25
  YES
L0014973        0   0.25330E-06   474099.0 3750188.7    475.0     3.49     6.51     3.25
  YES
L0014974        0   0.25330E-06   474099.3 3750174.7    475.0     3.49     6.51     3.25
  YES
L0014975        0   0.25330E-06   474099.5 3750160.7    475.2     3.49     6.51     3.25
  YES
L0014976        0   0.25330E-06   474099.7 3750146.7    475.7     3.49     6.51     3.25
  YES
L0014977        0   0.25330E-06   474099.9 3750132.7    476.0     3.49     6.51     3.25
  YES
L0014978        0   0.25330E-06   474100.1 3750118.7    476.0     3.49     6.51     3.25
  YES
L0014979        0   0.25330E-06   474100.3 3750104.7    476.1     3.49     6.51     3.25
  YES
L0014980        0   0.25330E-06   474100.5 3750090.7    476.5     3.49     6.51     3.25
  YES
L0014981        0   0.25330E-06   474100.7 3750076.7    477.0     3.49     6.51     3.25
  YES
L0014982        0   0.25330E-06   474100.9 3750062.7    477.0     3.49     6.51     3.25
  YES
L0014983        0   0.25330E-06   474101.1 3750048.7    477.0     3.49     6.51     3.25
  YES
L0014984        0   0.25330E-06   474101.3 3750034.7    477.0     3.49     6.51     3.25
  YES
L0014985        0   0.25330E-06   474101.5 3750020.7    477.0     3.49     6.51     3.25
  YES
L0014986        0   0.25330E-06   474101.7 3750006.7    477.0     3.49     6.51     3.25
  YES
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
             URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
    ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
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```
L0014987          0   0.25330E-06   474102.2 3749992.7   477.0    3.49    6.51    3.25
YES
L0014988          0   0.25330E-06   474102.8 3749978.8   477.2    3.49    6.51    3.25
YES
L0014989          0   0.25330E-06   474103.3 3749964.8   477.6    3.49    6.51    3.25
YES
L0014990          0   0.25330E-06   474103.9 3749950.8   477.7    3.49    6.51    3.25
YES
L0014991          0   0.25330E-06   474104.4 3749936.8   477.3    3.49    6.51    3.25
YES
L0014992          0   0.25330E-06   474105.0 3749922.8   477.1    3.49    6.51    3.25
YES
L0014993          0   0.25330E-06   474105.5 3749908.8   477.5    3.49    6.51    3.25
YES
L0014994          0   0.25330E-06   474106.1 3749894.8   477.8    3.49    6.51    3.25
YES
L0014995          0   0.25330E-06   474106.7 3749880.8   477.8    3.49    6.51    3.25
YES
L0014996          0   0.25330E-06   474107.2 3749866.8   477.8    3.49    6.51    3.25
YES
L0014997          0   0.25330E-06   474107.8 3749852.9   477.9    3.49    6.51    3.25
YES
L0014998          0   0.25330E-06   474108.3 3749838.9   478.0    3.49    6.51    3.25
YES
L0014999          0   0.25330E-06   474108.9 3749824.9   478.3    3.49    6.51    3.25
YES
L0015000          0   0.25330E-06   474109.4 3749810.9   478.6    3.49    6.51    3.25
YES
L0015001          0   0.25330E-06   474110.0 3749796.9   478.7    3.49    6.51    3.25
YES
L0015002          0   0.25330E-06   474110.5 3749782.9   478.6    3.49    6.51    3.25
YES
L0015003          0   0.25330E-06   474111.1 3749768.9   478.7    3.49    6.51    3.25
YES
L0015004          0   0.25330E-06   474117.4 3749761.0   478.7    3.49    6.51    3.25
YES
L0015005          0   0.25330E-06   474131.4 3749761.0   478.5    3.49    6.51    3.25
YES
L0015006          0   0.25330E-06   474145.4 3749761.1   478.2    3.49    6.51    3.25
YES
L0015007          0   0.25330E-06   474159.4 3749761.1   478.0    3.49    6.51    3.25
YES
L0015008          0   0.25330E-06   474173.4 3749761.1   477.5    3.49    6.51    3.25
YES
L0015009          0   0.25330E-06   474187.4 3749761.2   477.1    3.49    6.51    3.25
YES
L0015010          0   0.25330E-06   474201.4 3749761.2   477.0    3.49    6.51    3.25
YES
L0015011          0   0.25330E-06   474215.4 3749761.3   477.0    3.49    6.51    3.25
YES
L0015012          0   0.25330E-06   474229.4 3749761.3   476.8    3.49    6.51    3.25
YES
L0015013          0   0.25330E-06   474243.4 3749761.3   476.6    3.49    6.51    3.25
YES
L0015014          0   0.25330E-06   474257.4 3749761.4   476.4    3.49    6.51    3.25
YES
L0015015          0   0.25330E-06   474271.4 3749761.4   476.1    3.49    6.51    3.25
YES
L0015016          0   0.25330E-06   474285.4 3749761.5   476.0    3.49    6.51    3.25
YES
L0015017          0   0.25330E-06   474299.4 3749761.5   476.0    3.49    6.51    3.25
YES
L0015018          0   0.25330E-06   474313.4 3749761.5   475.9    3.49    6.51    3.25
YES
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L0015019        0   0.25330E-06  474327.4 3749761.6   475.4     3.49     6.51     3.25
  YES
L0015020        0   0.25330E-06  474341.4 3749761.6   475.0     3.49     6.51     3.25
  YES
L0015021        0   0.25330E-06  474355.4 3749761.7   475.0     3.49     6.51     3.25
  YES
L0015022        0   0.25330E-06  474369.4 3749761.7   475.0     3.49     6.51     3.25
  YES
L0015023        0   0.25330E-06  474383.4 3749761.7   474.5     3.49     6.51     3.25
  YES
L0015024        0   0.25330E-06  474397.4 3749761.8   474.1     3.49     6.51     3.25
  YES
L0015025        0   0.25330E-06  474411.4 3749761.8   474.0     3.49     6.51     3.25
  YES
L0015026        0   0.25330E-06  474425.4 3749761.8   474.0     3.49     6.51     3.25
  YES
```

█F █F *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

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L0015027        0   0.25330E-06  474439.4 3749761.9   473.7     3.49     6.51     3.25
  YES
L0015028        0   0.25330E-06  474453.4 3749761.9   473.2     3.49     6.51     3.25
  YES
L0015029        0   0.25330E-06  474467.4 3749762.0   473.0     3.49     6.51     3.25
  YES
L0015030        0   0.25330E-06  474481.4 3749762.0   473.0     3.49     6.51     3.25
  YES
L0015031        0   0.25330E-06  474495.4 3749762.0   472.8     3.49     6.51     3.25
  YES
L0015032        0   0.25330E-06  474509.4 3749762.1   472.3     3.49     6.51     3.25
  YES
L0015033        0   0.25330E-06  474523.4 3749762.1   471.9     3.49     6.51     3.25
  YES
L0015034        0   0.25330E-06  474537.4 3749762.2   471.4     3.49     6.51     3.25
  YES
L0015035        0   0.25330E-06  474551.4 3749762.2   470.9     3.49     6.51     3.25
  YES
L0015036        0   0.25330E-06  474565.4 3749762.2   470.5     3.49     6.51     3.25
  YES
L0015037        0   0.25330E-06  474579.4 3749762.3   470.0     3.49     6.51     3.25
  YES
L0015038        0   0.25330E-06  474593.4 3749762.3   470.0     3.49     6.51     3.25
  YES
L0015039        0   0.25330E-06  474607.4 3749762.4   470.0     3.49     6.51     3.25
  YES
L0015040        0   0.25330E-06  474621.4 3749762.4   469.8     3.49     6.51     3.25
  YES
L0015041        0   0.25330E-06  474635.4 3749762.4   469.6     3.49     6.51     3.25
  YES
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L0015042        0   0.25330E-06   474649.4 3749762.5    469.4    3.49    6.51    3.25
  YES
L0015043        0   0.25330E-06   474663.4 3749762.5    469.1    3.49    6.51    3.25
  YES
L0015044        0   0.25330E-06   474677.4 3749762.5    469.0    3.49    6.51    3.25
  YES
L0015045        0   0.25330E-06   474691.4 3749762.5    469.0    3.49    6.51    3.25
  YES
L0015046        0   0.25330E-06   474705.4 3749761.7    469.0    3.49    6.51    3.25
  YES
L0015047        0   0.25330E-06   474719.4 3749760.8    469.0    3.49    6.51    3.25
  YES
L0015048        0   0.25330E-06   474733.4 3749760.0    469.0    3.49    6.51    3.25
  YES
L0015049        0   0.25330E-06   474747.3 3749759.2    469.0    3.49    6.51    3.25
  YES
L0015050        0   0.25330E-06   474761.3 3749758.3    469.0    3.49    6.51    3.25
  YES
L0015051        0   0.25330E-06   474775.3 3749757.5    469.0    3.49    6.51    3.25
  YES
L0015052        0   0.25330E-06   474789.3 3749756.6    469.0    3.49    6.51    3.25
  YES
L0015053        0   0.25330E-06   474803.2 3749755.8    468.9    3.49    6.51    3.25
  YES
L0015054        0   0.25330E-06   474817.2 3749754.9    468.8    3.49    6.51    3.25
  YES
L0015055        0   0.25330E-06   474831.2 3749754.1    468.5    3.49    6.51    3.25
  YES
L0015056        0   0.25330E-06   474845.2 3749753.2    468.1    3.49    6.51    3.25
  YES
L0015057        0   0.25330E-06   474859.1 3749752.4    468.0    3.49    6.51    3.25
  YES
L0015058        0   0.25330E-06   474873.1 3749751.6    468.0    3.49    6.51    3.25
  YES
L0015059        0   0.25330E-06   474887.0 3749750.2    468.0    3.49    6.51    3.25
  YES
L0015060        0   0.25330E-06   474900.9 3749748.5    468.0    3.49    6.51    3.25
  YES
L0015061        0   0.25330E-06   474914.8 3749746.9    468.0    3.49    6.51    3.25
  YES
L0015062        0   0.25330E-06   474928.7 3749745.3    468.0    3.49    6.51    3.25
  YES
L0015063        0   0.25330E-06   474942.7 3749743.6    467.9    3.49    6.51    3.25
  YES
L0015064        0   0.25330E-06   474956.6 3749742.0    467.5    3.49    6.51    3.25
  YES
L0015065        0   0.25330E-06   474970.5 3749740.4    467.2    3.49    6.51    3.25
  YES
L0015066        0   0.25330E-06   474984.4 3749738.7    467.1    3.49    6.51    3.25
  YES
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
               URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE   SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)

L0015067   0   0.25330E-06 474998.3 3749737.1   467.0   3.49   6.51   3.25
YES
L0015068   0   0.25330E-06 475012.1 3749735.0   467.0   3.49   6.51   3.25
YES
L0015069   0   0.25330E-06 475025.9 3749732.7   467.0   3.49   6.51   3.25
YES
L0015070   0   0.25330E-06 475039.7 3749730.5   467.0   3.49   6.51   3.25
YES
L0015071   0   0.25330E-06 475053.6 3749728.2   467.0   3.49   6.51   3.25
YES
L0015072   0   0.25330E-06 475067.4 3749726.0   467.0   3.49   6.51   3.25
YES
L0015073   0   0.25330E-06 475081.2 3749723.7   467.0   3.49   6.51   3.25
YES
L0015074   0   0.25330E-06 475095.0 3749721.5   467.0   3.49   6.51   3.25
YES
L0015075   0   0.25330E-06 475107.1 3749715.2   467.0   3.49   6.51   3.25
YES
L0015076   0   0.25330E-06 475118.2 3749706.7   467.0   3.49   6.51   3.25
YES
L0015077   0   0.25330E-06 475129.2 3749698.1   467.0   3.49   6.51   3.25
YES
L0015078   0   0.25330E-06 475140.3 3749689.5   467.0   3.49   6.51   3.25
YES
L0015079   0   0.25330E-06 475151.4 3749680.9   466.9   3.49   6.51   3.25
YES
L0015080   0   0.25330E-06 475162.4 3749672.4   466.6   3.49   6.51   3.25
YES
L0015081   0   0.25330E-06 475173.5 3749663.8   466.2   3.49   6.51   3.25
YES
L0015082   0   0.25330E-06 475184.6 3749655.2   466.0   3.49   6.51   3.25
YES
L0015083   0   0.25330E-06 475195.6 3749646.6   466.0   3.49   6.51   3.25
YES
L0015084   0   0.25330E-06 475200.3 3749633.7   466.0   3.49   6.51   3.25
YES
L0015085   0   0.25330E-06 475204.1 3749620.2   466.0   3.49   6.51   3.25
YES
L0015086   0   0.25330E-06 475207.9 3749606.8   466.0   3.49   6.51   3.25
YES
L0015087   0   0.25330E-06 475211.7 3749593.3   466.0   3.49   6.51   3.25
YES
L0015088   0   0.25330E-06 475215.5 3749579.8   466.0   3.49   6.51   3.25
YES
L0015089   0   0.25330E-06 475219.3 3749566.4   466.0   3.49   6.51   3.25
YES
L0015090   0   0.25330E-06 475221.1 3749552.6   466.0   3.49   6.51   3.25
YES
L0015091   0   0.21550E-05 473450.3 3752041.6   475.3   3.49   6.51   3.25
YES
L0015092   0   0.21550E-05 473464.2 3752043.0   475.1   3.49   6.51   3.25
YES
L0015093   0   0.21550E-05 473478.1 3752044.3   475.0   3.49   6.51   3.25
YES
L0015094   0   0.21550E-05 473492.1 3752045.7   475.0   3.49   6.51   3.25
YES
L0015095   0   0.21550E-05 473506.0 3752047.0   474.9   3.49   6.51   3.25
YES
L0015096   0   0.21550E-05 473519.9 3752048.4   474.5   3.49   6.51   3.25
YES
L0015097   0   0.21550E-05 473533.9 3752049.7   474.2   3.49   6.51   3.25
YES

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L0015098           0  0.21550E-05  473547.8 3752050.8   474.1    3.49    6.51    3.25
   YES
L0015099           0  0.21550E-05  473561.8 3752052.0   473.9    3.49    6.51    3.25
   YES
L0015100           0  0.21550E-05  473575.7 3752053.1   473.5    3.49    6.51    3.25
   YES
L0015101           0  0.21550E-05  473589.7 3752054.3   473.0    3.49    6.51    3.25
   YES
L0015102           0  0.21550E-05  473603.6 3752055.4   472.6    3.49    6.51    3.25
   YES
L0015103           0  0.21550E-05  473617.6 3752056.6   472.1    3.49    6.51    3.25
   YES
L0015104           0  0.21550E-05  473631.5 3752057.7   472.4    3.49    6.51    3.25
   YES
L0015105           0  0.21550E-05  473645.5 3752058.9   472.8    3.49    6.51    3.25
   YES
L0015106           0  0.21550E-05  473659.5 3752059.5   472.9    3.49    6.51    3.25
   YES
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
     (METERS)   BY
- -
- - - - - - - - - - - - -

```
L0015107           0  0.21550E-05  473673.5 3752059.6   473.0    3.49    6.51    3.25
   YES
L0015108           0  0.21550E-05  473687.5 3752059.7   473.0    3.49    6.51    3.25
   YES
L0015109           0  0.21550E-05  473701.5 3752059.8   473.0    3.49    6.51    3.25
   YES
L0015110           0  0.21550E-05  473715.5 3752059.9   473.0    3.49    6.51    3.25
   YES
L0015111           0  0.21550E-05  473729.5 3752060.0   472.9    3.49    6.51    3.25
   YES
L0015112           0  0.21550E-05  473743.5 3752060.1   472.9    3.49    6.51    3.25
   YES
L0015113           0  0.21550E-05  473757.5 3752060.2   472.9    3.49    6.51    3.25
   YES
L0015114           0  0.21550E-05  473771.4 3752060.9   472.9    3.49    6.51    3.25
   YES
L0015115           0  0.21550E-05  473785.3 3752062.6   472.8    3.49    6.51    3.25
   YES
L0015116           0  0.21550E-05  473799.2 3752064.3   472.7    3.49    6.51    3.25
   YES
L0015117           0  0.21550E-05  473813.1 3752066.0   472.7    3.49    6.51    3.25
   YES
L0015118           0  0.21550E-05  473827.0 3752067.7   472.6    3.49    6.51    3.25
   YES
L0015119           0  0.21550E-05  473840.9 3752069.4   472.7    3.49    6.51    3.25
   YES
L0015120           0  0.21550E-05  473854.8 3752071.3   472.9    3.49    6.51    3.25
   YES
```

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L0015121       0   0.21550E-05   473868.3 3752075.0   472.8    3.49    6.51    3.25
YES
L0015122       0   0.21550E-05   473881.8 3752078.7   472.5    3.49    6.51    3.25
YES
L0015123       0   0.21550E-05   473895.3 3752082.4   472.1    3.49    6.51    3.25
YES
L0015124       0   0.21550E-05   473908.8 3752086.1   472.0    3.49    6.51    3.25
YES
L0015125       0   0.21550E-05   473922.3 3752089.6   471.8    3.49    6.51    3.25
YES
L0015126       0   0.21550E-05   473936.2 3752091.7   471.4    3.49    6.51    3.25
YES
L0015127       0   0.21550E-05   473950.0 3752093.9   471.0    3.49    6.51    3.25
YES
L0015128       0   0.21550E-05   473963.8 3752096.0   470.9    3.49    6.51    3.25
YES
L0015129       0   0.21550E-05   473977.7 3752098.1   470.6    3.49    6.51    3.25
YES
L0015130       0   0.21550E-05   473991.5 3752100.2   470.3    3.49    6.51    3.25
YES
L0015131       0   0.21550E-05   474005.3 3752102.4   470.1    3.49    6.51    3.25
YES
L0015132       0   0.21550E-05   474019.2 3752104.5   470.0    3.49    6.51    3.25
YES
L0015133       0   0.21550E-05   474033.0 3752106.6   470.0    3.49    6.51    3.25
YES
L0015134       0   0.21550E-05   474046.9 3752108.7   470.0    3.49    6.51    3.25
YES
L0015135       0   0.21550E-05   474060.7 3752110.9   470.0    3.49    6.51    3.25
YES
L0015136       0   0.21550E-05   474074.5 3752113.0   470.0    3.49    6.51    3.25
YES
L0015137       0   0.21550E-05   474088.4 3752115.1   470.0    3.49    6.51    3.25
YES
L0015138       0   0.21550E-05   474102.2 3752117.2   470.0    3.49    6.51    3.25
YES
L0015139       0   0.21550E-05   474116.1 3752119.4   470.0    3.49    6.51    3.25
YES
L0015140       0   0.21550E-05   474129.9 3752121.5   470.0    3.49    6.51    3.25
YES
L0015141       0   0.21550E-05   474143.7 3752123.6   470.0    3.49    6.51    3.25
YES
L0015142       0   0.21550E-05   474157.6 3752125.7   470.0    3.49    6.51    3.25
YES
L0015143       0   0.21550E-05   474171.4 3752127.9   470.0    3.49    6.51    3.25
YES
L0015144       0   0.21550E-05   474185.2 3752130.1   470.0    3.49    6.51    3.25
YES
L0015145       0   0.21550E-05   474199.0 3752132.4   470.0    3.49    6.51    3.25
YES
L0015146       0   0.21550E-05   474212.8 3752134.7   470.0    3.49    6.51    3.25
YES
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ

SOURCE ID (METERS)	SCALAR CATS.	VARY BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0015147 YES	0	0.21550E-05	474226.7	3752137.0	470.0	3.49	6.51	3.25
L0015148 YES	0	0.21550E-05	474240.5	3752139.3	470.0	3.49	6.51	3.25
L0015149 YES	0	0.21550E-05	474254.3	3752141.6	470.2	3.49	6.51	3.25
L0015150 YES	0	0.21550E-05	474268.1	3752143.9	470.6	3.49	6.51	3.25
L0015151 YES	0	0.75610E-07	474282.5	3752146.3	471.1	3.49	6.51	3.25
L0015152 YES	0	0.75610E-07	474296.3	3752149.0	471.5	3.49	6.51	3.25
L0015153 YES	0	0.75610E-07	474310.0	3752151.6	471.8	3.49	6.51	3.25
L0015154 YES	0	0.75610E-07	474323.7	3752154.3	472.1	3.49	6.51	3.25
L0015155 YES	0	0.75610E-07	474337.5	3752157.0	472.3	3.49	6.51	3.25
L0015156 YES	0	0.75610E-07	474351.2	3752159.7	472.1	3.49	6.51	3.25
L0015157 YES	0	0.75610E-07	474365.0	3752162.4	471.9	3.49	6.51	3.25
L0015158 YES	0	0.75610E-07	474378.7	3752165.0	471.9	3.49	6.51	3.25
L0015159 YES	0	0.75610E-07	474392.5	3752167.7	472.1	3.49	6.51	3.25
L0015160 YES	0	0.75610E-07	474406.2	3752170.4	472.2	3.49	6.51	3.25
L0015161 YES	0	0.75610E-07	474419.9	3752173.1	472.1	3.49	6.51	3.25
L0015162 YES	0	0.75610E-07	474433.7	3752175.8	472.0	3.49	6.51	3.25
L0015163 YES	0	0.75610E-07	474447.4	3752178.5	472.0	3.49	6.51	3.25
L0015164 YES	0	0.75610E-07	474461.2	3752181.1	472.0	3.49	6.51	3.25
L0015165 YES	0	0.75610E-07	474474.9	3752183.8	472.0	3.49	6.51	3.25
L0015166 YES	0	0.75610E-07	474488.6	3752186.5	472.0	3.49	6.51	3.25
L0015167 YES	0	0.75610E-07	474502.4	3752189.2	472.0	3.49	6.51	3.25
L0015168 YES	0	0.75610E-07	474516.1	3752191.9	472.0	3.49	6.51	3.25
L0015169 YES	0	0.75610E-07	474529.9	3752194.5	472.0	3.49	6.51	3.25
L0015170 YES	0	0.75610E-07	474543.6	3752197.2	472.0	3.49	6.51	3.25
L0015171 YES	0	0.75610E-07	474557.3	3752199.9	472.0	3.49	6.51	3.25
L0015172 YES	0	0.75610E-07	474571.1	3752202.6	472.0	3.49	6.51	3.25
L0015173 YES	0	0.75610E-07	474584.8	3752205.3	472.0	3.49	6.51	3.25
L0015174 YES	0	0.75610E-07	474598.6	3752207.9	472.0	3.49	6.51	3.25
L0015175 YES	0	0.75610E-07	474612.3	3752210.6	472.0	3.49	6.51	3.25
L0015176 YES	0	0.75610E-07	474626.0	3752213.3	472.0	3.49	6.51	3.25

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L0015177        0   0.75610E-07  474639.8 3752215.8   472.0    3.49    6.51    3.25
  YES
L0015178        0   0.75610E-07  474653.6 3752218.0   472.0    3.49    6.51    3.25
  YES
L0015179        0   0.75610E-07  474667.5 3752220.2   472.0    3.49    6.51    3.25
  YES
L0015180        0   0.75610E-07  474681.4 3752221.0   472.0    3.49    6.51    3.25
  YES
L0015181        0   0.75610E-07  474695.4 3752221.8   472.0    3.49    6.51    3.25
  YES
L0015182        0   0.75610E-07  474709.4 3752222.6   472.0    3.49    6.51    3.25
  YES
L0015183        0   0.75610E-07  474723.4 3752223.4   472.0    3.49    6.51    3.25
  YES
L0015184        0   0.75610E-07  474737.4 3752224.1   472.0    3.49    6.51    3.25
  YES
L0015185        0   0.75610E-07  474751.3 3752224.9   472.0    3.49    6.51    3.25
  YES
L0015186        0   0.75610E-07  474765.3 3752224.8   472.0    3.49    6.51    3.25
  YES
```

🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

```
              NUMBER EMISSION RATE                  BASE     RELEASE    INIT.    INIT.
              URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)    X        Y      ELEV.    HEIGHT     SY       SZ
   SOURCE  SCALAR VARY
     ID     CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0015187        0   0.75610E-07  474779.3 3752224.6   472.0    3.49    6.51    3.25
  YES
L0015188        0   0.75610E-07  474793.3 3752224.5   472.0    3.49    6.51    3.25
  YES
L0015189        0   0.75610E-07  474807.3 3752224.4   472.0    3.49    6.51    3.25
  YES
L0015190        0   0.75610E-07  474821.3 3752224.2   472.0    3.49    6.51    3.25
  YES
L0015191        0   0.75610E-07  474835.3 3752224.1   472.0    3.49    6.51    3.25
  YES
L0015192        0   0.75610E-07  474849.3 3752223.9   472.0    3.49    6.51    3.25
  YES
L0015193        0   0.75610E-07  474863.3 3752223.8   472.4    3.49    6.51    3.25
  YES
L0015194        0   0.75610E-07  474877.3 3752223.6   472.9    3.49    6.51    3.25
  YES
L0015195        0   0.75610E-07  474891.3 3752223.5   473.0    3.49    6.51    3.25
  YES
L0015196        0   0.75610E-07  474905.3 3752223.3   473.0    3.49    6.51    3.25
  YES
L0015197        0   0.75610E-07  474919.3 3752223.2   472.7    3.49    6.51    3.25
  YES
L0015198        0   0.75610E-07  474933.3 3752223.0   472.2    3.49    6.51    3.25
  YES
L0015199        0   0.75610E-07  474947.3 3752222.9   472.0    3.49    6.51    3.25
  YES
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L0015200        0   0.75610E-07   474961.3 3752222.9    472.0     3.49     6.51     3.25
   YES
L0015201        0   0.75610E-07   474975.3 3752222.9    472.0     3.49     6.51     3.25
   YES
L0015202        0   0.75610E-07   474989.3 3752223.0    472.0     3.49     6.51     3.25
   YES
L0015203        0   0.75610E-07   475003.3 3752223.0    472.0     3.49     6.51     3.25
   YES
L0015204        0   0.75610E-07   475017.3 3752223.1    472.0     3.49     6.51     3.25
   YES
L0015205        0   0.75610E-07   475031.3 3752223.1    472.0     3.49     6.51     3.25
   YES
L0015206        0   0.75610E-07   475045.3 3752223.2    472.0     3.49     6.51     3.25
   YES
L0015207        0   0.75610E-07   475059.3 3752223.2    472.0     3.49     6.51     3.25
   YES
L0015208        0   0.75610E-07   475073.3 3752223.3    472.0     3.49     6.51     3.25
   YES
L0015209        0   0.75610E-07   475087.3 3752223.4    472.0     3.49     6.51     3.25
   YES
L0015210        0   0.75610E-07   475101.3 3752223.4    472.0     3.49     6.51     3.25
   YES
L0015211        0   0.75610E-07   475115.3 3752223.5    472.0     3.49     6.51     3.25
   YES
L0015212        0   0.75610E-07   475129.3 3752223.5    472.0     3.49     6.51     3.25
   YES
L0015213        0   0.75610E-07   475143.3 3752223.6    472.0     3.49     6.51     3.25
   YES
L0015214        0   0.75610E-07   475157.3 3752223.6    472.0     3.49     6.51     3.25
   YES
L0015215        0   0.75610E-07   475171.3 3752223.7    472.0     3.49     6.51     3.25
   YES
L0015216        0   0.75610E-07   475185.3 3752223.7    472.0     3.49     6.51     3.25
   YES
L0015217        0   0.75610E-07   475199.3 3752223.8    472.0     3.49     6.51     3.25
   YES
L0015218        0   0.75610E-07   475213.3 3752223.8    472.0     3.49     6.51     3.25
   YES
L0015219        0   0.75610E-07   475227.3 3752223.9    472.0     3.49     6.51     3.25
   YES
L0015220        0   0.75610E-07   475241.3 3752224.0    472.0     3.49     6.51     3.25
   YES
L0015221        0   0.75610E-07   475255.3 3752224.0    472.0     3.49     6.51     3.25
   YES
L0015222        0   0.75610E-07   475269.3 3752224.1    472.0     3.49     6.51     3.25
   YES
L0015223        0   0.75610E-07   475283.3 3752224.1    472.0     3.49     6.51     3.25
   YES
L0015224        0   0.75610E-07   475297.3 3752224.2    472.0     3.49     6.51     3.25
   YES
L0015225        0   0.75610E-07   475311.3 3752224.2    472.0     3.49     6.51     3.25
   YES
L0015226        0   0.75610E-07   475325.3 3752224.3    472.0     3.49     6.51     3.25
   YES
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▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.

SOURCE ID (METERS)	URBAN SOURCE PART. SCALAR CATS.	VARY BY	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ
L0015227 YES	0		0.75610E-07	475339.3	3752224.3	472.0	3.49	6.51	3.25
L0015228 YES	0		0.75610E-07	475353.3	3752224.4	472.0	3.49	6.51	3.25
L0015229 YES	0		0.75610E-07	475367.3	3752224.5	472.0	3.49	6.51	3.25
L0015230 YES	0		0.75610E-07	475381.3	3752224.5	472.0	3.49	6.51	3.25
L0015231 YES	0		0.75610E-07	475395.3	3752224.6	472.0	3.49	6.51	3.25
L0015232 YES	0		0.75610E-07	475409.3	3752224.6	472.0	3.49	6.51	3.25
L0015233 YES	0		0.75610E-07	475423.3	3752224.7	472.0	3.49	6.51	3.25
L0015234 YES	0		0.75610E-07	475437.3	3752224.7	472.0	3.49	6.51	3.25
L0015235 YES	0		0.75610E-07	475451.3	3752224.8	472.0	3.49	6.51	3.25
L0015236 YES	0		0.75610E-07	475465.3	3752224.8	472.0	3.49	6.51	3.25
L0015237 YES	0		0.75610E-07	475479.3	3752224.9	472.0	3.49	6.51	3.25
L0015238 YES	0		0.75610E-07	475493.3	3752224.9	472.0	3.49	6.51	3.25
L0015239 YES	0		0.75610E-07	475507.3	3752225.0	472.0	3.49	6.51	3.25
L0015240 YES	0		0.75610E-07	475521.3	3752225.1	472.0	3.49	6.51	3.25
L0015241 YES	0		0.75610E-07	475535.3	3752225.1	472.0	3.49	6.51	3.25
L0015242 YES	0		0.75610E-07	475549.3	3752225.2	472.0	3.49	6.51	3.25
L0015243 YES	0		0.75610E-07	475563.3	3752225.2	472.0	3.49	6.51	3.25
L0015244 YES	0		0.75610E-07	475577.3	3752225.3	472.0	3.49	6.51	3.25
L0015245 YES	0		0.75610E-07	475591.3	3752225.3	472.0	3.49	6.51	3.25
L0015246 YES	0		0.75610E-07	475605.3	3752225.4	472.0	3.49	6.51	3.25
L0015247 YES	0		0.75610E-07	475619.3	3752225.4	472.0	3.49	6.51	3.25
L0015248 YES	0		0.75610E-07	475633.3	3752225.5	472.0	3.49	6.51	3.25
L0015249 YES	0		0.75610E-07	475647.3	3752225.5	472.0	3.49	6.51	3.25
L0015250 YES	0		0.75610E-07	475661.3	3752225.6	472.0	3.49	6.51	3.25
L0015251 YES	0		0.75610E-07	475675.3	3752225.7	472.0	3.49	6.51	3.25
L0015252 YES	0		0.75610E-07	475689.3	3752225.7	472.0	3.49	6.51	3.25
L0015253 YES	0		0.75610E-07	475703.3	3752225.8	472.0	3.49	6.51	3.25
L0015254 YES	0		0.75610E-07	475717.3	3752225.8	472.0	3.49	6.51	3.25
L0015255 YES	0		0.75610E-07	475731.3	3752225.9	472.0	3.49	6.51	3.25

SOURCE ID	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
L0015256	0	0.75610E-07	475745.3	3752225.9	472.0	3.49	6.51	3.25	YES
L0015257	0	0.75610E-07	475759.3	3752226.0	472.0	3.49	6.51	3.25	YES
L0015258	0	0.75610E-07	475773.3	3752226.0	472.0	3.49	6.51	3.25	YES
L0015259	0	0.75610E-07	475787.3	3752226.1	472.0	3.49	6.51	3.25	YES
L0015260	0	0.75610E-07	475801.3	3752226.2	472.0	3.49	6.51	3.25	YES
L0015261	0	0.75610E-07	475815.3	3752226.2	472.0	3.49	6.51	3.25	YES
L0015262	0	0.75610E-07	475829.3	3752226.3	472.0	3.49	6.51	3.25	YES
L0015263	0	0.75610E-07	475843.3	3752226.3	472.0	3.49	6.51	3.25	YES
L0015264	0	0.75610E-07	475857.3	3752226.4	472.0	3.49	6.51	3.25	YES
L0015265	0	0.14590E-05	471210.6	3752237.5	516.6	3.49	4.00	3.25	YES
L0015266	0	0.14590E-05	471210.6	3752228.9	517.0	3.49	4.00	3.25	YES

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
L0015267	0	0.14590E-05	471210.6	3752220.3	517.2	3.49	4.00	3.25	YES
L0015268	0	0.14590E-05	471210.6	3752211.7	517.5	3.49	4.00	3.25	YES
L0015269	0	0.14590E-05	471211.3	3752203.8	517.7	3.49	4.00	3.25	YES
L0015270	0	0.14590E-05	471219.9	3752203.8	518.0	3.49	4.00	3.25	YES
L0015271	0	0.14590E-05	471228.5	3752203.8	518.0	3.49	4.00	3.25	YES
L0015272	0	0.14590E-05	471237.1	3752203.7	518.1	3.49	4.00	3.25	YES
L0015273	0	0.14590E-05	471245.7	3752203.7	518.1	3.49	4.00	3.25	YES
L0015274	0	0.14590E-05	471254.2	3752203.7	518.1	3.49	4.00	3.25	YES
L0015275	0	0.14590E-05	471262.8	3752203.7	518.1	3.49	4.00	3.25	YES
L0015276	0	0.14590E-05	471271.4	3752203.7	518.1	3.49	4.00	3.25	YES
L0015277	0	0.14590E-05	471280.0	3752203.7	518.1	3.49	4.00	3.25	YES
L0015278	0	0.14590E-05	471288.6	3752203.7	518.4	3.49	4.00	3.25	YES

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L0015279        0   0.14590E-05   471297.2 3752203.7   518.8    3.49    4.00    3.25
  YES
L0015280        0   0.14590E-05   471305.8 3752203.7   519.1    3.49    4.00    3.25
  YES
L0015281        0   0.14590E-05   471314.4 3752203.6   519.4    3.49    4.00    3.25
  YES
L0015282        0   0.14590E-05   471323.0 3752203.6   519.7    3.49    4.00    3.25
  YES
L0015283        0   0.14590E-05   471331.6 3752203.6   520.0    3.49    4.00    3.25
  YES
L0015284        0   0.14590E-05   471340.1 3752203.6   520.3    3.49    4.00    3.25
  YES
L0015285        0   0.14590E-05   471348.7 3752203.6   520.9    3.49    4.00    3.25
  YES
L0015286        0   0.14590E-05   471357.3 3752203.6   521.4    3.49    4.00    3.25
  YES
L0015287        0   0.14590E-05   471365.9 3752203.6   522.0    3.49    4.00    3.25
  YES
L0015288        0   0.14590E-05   471374.5 3752203.6   522.4    3.49    4.00    3.25
  YES
L0015289        0   0.14590E-05   471383.1 3752203.6   522.7    3.49    4.00    3.25
  YES
L0015290        0   0.14590E-05   471391.7 3752203.5   522.9    3.49    4.00    3.25
  YES
L0015291        0   0.14590E-05   471400.3 3752203.5   523.2    3.49    4.00    3.25
  YES
L0015292        0   0.14590E-05   471408.9 3752203.5   523.8    3.49    4.00    3.25
  YES
L0015293        0   0.14590E-05   471417.5 3752203.5   524.4    3.49    4.00    3.25
  YES
L0015294        0   0.14590E-05   471426.0 3752203.5   525.0    3.49    4.00    3.25
  YES
L0015295        0   0.14590E-05   471434.6 3752203.5   525.4    3.49    4.00    3.25
  YES
L0015296        0   0.14590E-05   471443.2 3752203.5   525.7    3.49    4.00    3.25
  YES
L0015297        0   0.14590E-05   471451.8 3752203.5   526.0    3.49    4.00    3.25
  YES
L0015298        0   0.14590E-05   471460.4 3752203.5   526.3    3.49    4.00    3.25
  YES
L0015299        0   0.14590E-05   471469.0 3752203.5   526.1    3.49    4.00    3.25
  YES
L0015300        0   0.14590E-05   471477.6 3752203.4   525.8    3.49    4.00    3.25
  YES
L0015301        0   0.14590E-05   471486.2 3752203.4   525.6    3.49    4.00    3.25
  YES
L0015302        0   0.14590E-05   471494.8 3752203.4   525.7    3.49    4.00    3.25
  YES
L0015303        0   0.14590E-05   471503.4 3752203.4   525.9    3.49    4.00    3.25
  YES
L0015304        0   0.14590E-05   471511.9 3752203.4   526.2    3.49    4.00    3.25
  YES
L0015305        0   0.14590E-05   471520.5 3752203.4   526.4    3.49    4.00    3.25
  YES
L0015306        0   0.14590E-05   471529.1 3752203.4   526.4    3.49    4.00    3.25
  YES
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                                          *** VOLUME SOURCE DATA ***

	NUMBER URBAN PART. SCALAR VARY CATS.	EMISSION RATE EMISSION RATE				BASE	RELEASE	INIT.	INIT.
SOURCE ID SOURCE (METERS)		(GRAMS/SEC)	BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ
L0015307	0	0.14590E-05	YES	471537.7	3752203.4	526.3	3.49	4.00	3.25
L0015308	0	0.14590E-05	YES	471546.3	3752203.4	526.2	3.49	4.00	3.25
L0015309	0	0.14590E-05	YES	471554.9	3752203.3	525.9	3.49	4.00	3.25
L0015310	0	0.14590E-05	YES	471563.5	3752203.3	525.3	3.49	4.00	3.25
L0015311	0	0.14590E-05	YES	471572.1	3752203.3	524.7	3.49	4.00	3.25
L0015312	0	0.14590E-05	YES	471580.7	3752203.3	524.3	3.49	4.00	3.25
L0015313	0	0.14590E-05	YES	471589.3	3752203.3	524.5	3.49	4.00	3.25
L0015314	0	0.14590E-05	YES	471597.8	3752203.3	524.8	3.49	4.00	3.25
L0015315	0	0.14590E-05	YES	471606.4	3752203.3	525.1	3.49	4.00	3.25
L0015316	0	0.14590E-05	YES	471615.0	3752203.3	525.4	3.49	4.00	3.25
L0015317	0	0.14590E-05	YES	471623.6	3752203.3	525.6	3.49	4.00	3.25
L0015318	0	0.14590E-05	YES	471632.2	3752203.2	525.9	3.49	4.00	3.25
L0015319	0	0.14590E-05	YES	471640.8	3752203.2	526.1	3.49	4.00	3.25
L0015320	0	0.14590E-05	YES	471649.4	3752203.2	526.1	3.49	4.00	3.25
L0015321	0	0.14590E-05	YES	471658.0	3752203.2	526.1	3.49	4.00	3.25
L0015322	0	0.14590E-05	YES	471666.6	3752203.2	526.1	3.49	4.00	3.25
L0015323	0	0.14590E-05	YES	471675.2	3752203.2	526.1	3.49	4.00	3.25
L0015324	0	0.14590E-05	YES	471683.7	3752203.2	526.1	3.49	4.00	3.25
L0015325	0	0.14590E-05	YES	471692.3	3752203.2	526.0	3.49	4.00	3.25
L0015326	0	0.14590E-05	YES	471700.9	3752203.2	525.9	3.49	4.00	3.25
L0015327	0	0.14590E-05	YES	471709.5	3752203.2	525.3	3.49	4.00	3.25
L0015328	0	0.14590E-05	YES	471718.1	3752203.1	524.8	3.49	4.00	3.25
L0015329	0	0.14590E-05	YES	471726.7	3752203.1	524.2	3.49	4.00	3.25
L0015330	0	0.14590E-05	YES	471733.4	3752201.2	523.6	3.49	4.00	3.25
L0015331	0	0.14590E-05	YES	471733.3	3752192.6	523.6	3.49	4.00	3.25
L0015332	0	0.14590E-05	YES	471733.2	3752184.1	523.5	3.49	4.00	3.25
L0015333	0	0.14590E-05	YES	471733.2	3752175.5	523.6	3.49	4.00	3.25
L0015334	0	0.14590E-05	YES	471733.1	3752166.9	523.8	3.49	4.00	3.25

SOURCE ID	NUMBER PART.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)
L0015335	0	0.14590E-05	471733.0	3752158.3	524.1	3.49	4.00	3.25
YES								
L0015336	0	0.14590E-05	471733.0	3752149.7	524.4	3.49	4.00	3.25
YES								
L0015337	0	0.14590E-05	471732.9	3752141.1	524.7	3.49	4.00	3.25
YES								
L0015338	0	0.14590E-05	471732.8	3752132.5	525.0	3.49	4.00	3.25
YES								
L0015339	0	0.14590E-05	471732.8	3752123.9	525.3	3.49	4.00	3.25
YES								
L0015340	0	0.14590E-05	471732.7	3752115.3	525.6	3.49	4.00	3.25
YES								
L0015341	0	0.14590E-05	471732.6	3752106.7	525.9	3.49	4.00	3.25
YES								
L0015342	0	0.14590E-05	471732.6	3752098.2	526.3	3.49	4.00	3.25
YES								
L0015343	0	0.14590E-05	471732.5	3752089.6	526.6	3.49	4.00	3.25
YES								
L0015344	0	0.14590E-05	471732.4	3752081.0	526.9	3.49	4.00	3.25
YES								
L0015345	0	0.14590E-05	471732.4	3752072.4	527.2	3.49	4.00	3.25
YES								
L0015346	0	0.14590E-05	471732.3	3752063.8	527.5	3.49	4.00	3.25
YES								

 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER URBAN PART. SOURCE CATS. (METERS)	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015347	0	0.14590E-05	471732.2	3752055.2	527.8	3.49	4.00	3.25
YES								
L0015348	0	0.14590E-05	471732.2	3752046.6	528.1	3.49	4.00	3.25
YES								
L0015349	0	0.14590E-05	471732.1	3752038.0	528.4	3.49	4.00	3.25
YES								
L0015350	0	0.14590E-05	471732.0	3752029.4	528.7	3.49	4.00	3.25
YES								
L0015351	0	0.14590E-05	471732.0	3752020.8	529.0	3.49	4.00	3.25
YES								
L0015352	0	0.14590E-05	471731.9	3752012.3	529.3	3.49	4.00	3.25
YES								
L0015353	0	0.14590E-05	471731.8	3752003.7	529.7	3.49	4.00	3.25
YES								
L0015354	0	0.14590E-05	471731.8	3751995.1	530.0	3.49	4.00	3.25
YES								
L0015355	0	0.14590E-05	471731.7	3751986.5	530.3	3.49	4.00	3.25
YES								
L0015356	0	0.14590E-05	471731.6	3751977.9	530.6	3.49	4.00	3.25
YES								
L0015357	0	0.14590E-05	471731.6	3751969.3	530.8	3.49	4.00	3.25
YES								

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L0015358        0    0.14590E-05   471731.5 3751960.7   531.1     3.49     4.00     3.25
   YES
L0015359        0    0.14590E-05   471730.7 3751952.9   531.4     3.49     4.00     3.25
   YES
L0015360        0    0.14590E-05   471722.1 3751952.8   532.1     3.49     4.00     3.25
   YES
L0015361        0    0.14590E-05   471713.5 3751952.7   532.8     3.49     4.00     3.25
   YES
L0015362        0    0.14590E-05   471704.9 3751952.6   533.4     3.49     4.00     3.25
   YES
L0015363        0    0.14590E-05   471696.3 3751952.5   533.9     3.49     4.00     3.25
   YES
L0015364        0    0.14590E-05   471687.7 3751952.4   534.1     3.49     4.00     3.25
   YES
L0015365        0    0.14590E-05   471679.1 3751952.4   534.3     3.49     4.00     3.25
   YES
L0015366        0    0.14590E-05   471670.5 3751952.3   534.4     3.49     4.00     3.25
   YES
L0015367        0    0.14590E-05   471662.0 3751952.2   534.7     3.49     4.00     3.25
   YES
L0015368        0    0.14590E-05   471653.4 3751952.1   535.0     3.49     4.00     3.25
   YES
L0015369        0    0.14590E-05   471644.8 3751952.0   535.3     3.49     4.00     3.25
   YES
L0015370        0    0.14590E-05   471636.2 3751951.9   535.5     3.49     4.00     3.25
   YES
L0015371        0    0.14590E-05   471627.6 3751951.8   535.7     3.49     4.00     3.25
   YES
L0015372        0    0.14590E-05   471619.0 3751951.8   535.8     3.49     4.00     3.25
   YES
L0015373        0    0.14590E-05   471610.4 3751951.7   536.0     3.49     4.00     3.25
   YES
L0015374        0    0.14590E-05   471601.8 3751951.6   535.9     3.49     4.00     3.25
   YES
L0015375        0    0.14590E-05   471593.2 3751951.5   535.7     3.49     4.00     3.25
   YES
L0015376        0    0.14590E-05   471584.7 3751951.4   535.6     3.49     4.00     3.25
   YES
L0015377        0    0.14590E-05   471576.1 3751951.3   535.3     3.49     4.00     3.25
   YES
L0015378        0    0.14590E-05   471567.5 3751951.2   534.9     3.49     4.00     3.25
   YES
L0015379        0    0.14590E-05   471558.9 3751951.2   534.5     3.49     4.00     3.25
   YES
L0015380        0    0.14590E-05   471550.3 3751951.1   534.0     3.49     4.00     3.25
   YES
L0015381        0    0.14590E-05   471541.7 3751951.0   533.6     3.49     4.00     3.25
   YES
L0015382        0    0.14590E-05   471533.1 3751950.9   533.2     3.49     4.00     3.25
   YES
L0015383        0    0.14590E-05   471524.5 3751950.8   532.8     3.49     4.00     3.25
   YES
L0015384        0    0.14590E-05   471515.9 3751950.7   532.3     3.49     4.00     3.25
   YES
L0015385        0    0.14590E-05   471507.3 3751950.6   531.9     3.49     4.00     3.25
   YES
L0015386        0    0.14590E-05   471498.8 3751950.6   531.5     3.49     4.00     3.25
   YES
```

�row *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.     INIT.
       URBAN  EMISSION RATE
  SOURCE  PART.  (GRAMS/SEC)      X        Y        ELEV.    HEIGHT      SY        SZ
  SOURCE SCALAR VARY
    ID    CATS.                 (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)           BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0015387        0   0.14590E-05  471490.2 3751950.5   531.0    3.49     4.00      3.25
YES
L0015388        0   0.14590E-05  471481.6 3751950.4   530.7    3.49     4.00      3.25
YES
L0015389        0   0.14590E-05  471473.0 3751950.3   530.4    3.49     4.00      3.25
YES
L0015390        0   0.14590E-05  471464.4 3751950.2   530.2    3.49     4.00      3.25
YES
L0015391        0   0.14590E-05  471455.8 3751950.1   529.8    3.49     4.00      3.25
YES
L0015392        0   0.14590E-05  471447.2 3751950.0   529.2    3.49     4.00      3.25
YES
L0015393        0   0.14590E-05  471438.6 3751950.0   528.6    3.49     4.00      3.25
YES
L0015394        0   0.14590E-05  471430.0 3751949.9   528.0    3.49     4.00      3.25
YES
L0015395        0   0.14590E-05  471421.5 3751949.8   527.6    3.49     4.00      3.25
YES
L0015396        0   0.14590E-05  471412.9 3751949.7   527.1    3.49     4.00      3.25
YES
L0015397        0   0.14590E-05  471404.3 3751949.6   526.7    3.49     4.00      3.25
YES
L0015398        0   0.14590E-05  471395.7 3751949.5   526.1    3.49     4.00      3.25
YES
L0015399        0   0.14590E-05  471387.1 3751949.4   525.4    3.49     4.00      3.25
YES
L0015400        0   0.14590E-05  471378.5 3751949.4   524.7    3.49     4.00      3.25
YES
L0015401        0   0.14590E-05  471369.9 3751949.3   524.0    3.49     4.00      3.25
YES
L0015402        0   0.14590E-05  471361.3 3751949.2   523.7    3.49     4.00      3.25
YES
L0015403        0   0.14590E-05  471352.7 3751949.1   523.4    3.49     4.00      3.25
YES
L0015404        0   0.14590E-05  471344.1 3751949.0   523.1    3.49     4.00      3.25
YES
L0015405        0   0.14590E-05  471335.6 3751948.9   522.9    3.49     4.00      3.25
YES
L0015406        0   0.14590E-05  471327.0 3751948.9   522.6    3.49     4.00      3.25
YES
L0015407        0   0.14590E-05  471318.4 3751948.8   522.3    3.49     4.00      3.25
YES
L0015408        0   0.14590E-05  471309.8 3751948.7   522.0    3.49     4.00      3.25
YES
L0015409        0   0.14590E-05  471301.2 3751948.6   522.1    3.49     4.00      3.25
YES
L0015410        0   0.14590E-05  471292.6 3751948.5   522.1    3.49     4.00      3.25
YES
L0015411        0   0.14590E-05  471284.0 3751948.4   522.2    3.49     4.00      3.25
YES
L0015412        0   0.14590E-05  471275.4 3751948.3   522.4    3.49     4.00      3.25
YES
L0015413        0   0.14590E-05  471266.9 3751947.9   522.8    3.49     4.00      3.25
YES
```

```
L0015414          0   0.14590E-05   471258.3 3751947.2    523.3     3.49      4.00      3.25
YES
L0015415          0   0.14590E-05   471249.7 3751946.4    523.7     3.49      4.00      3.25
YES
L0015416          0   0.14590E-05   471241.2 3751945.7    523.5     3.49      4.00      3.25
YES
L0015417          0   0.14590E-05   471232.6 3751946.0    523.3     3.49      4.00      3.25
YES
L0015418          0   0.14590E-05   471224.0 3751946.3    523.1     3.49      4.00      3.25
YES
L0015419          0   0.14590E-05   471215.4 3751946.6    522.9     3.49      4.00      3.25
YES
L0015420          0   0.14590E-05   471206.8 3751947.0    522.5     3.49      4.00      3.25
YES
L0015421          0   0.14590E-05   471198.3 3751947.3    522.2     3.49      4.00      3.25
YES
L0015422          0   0.14590E-05   471189.7 3751947.6    521.9     3.49      4.00      3.25
YES
L0015423          0   0.14590E-05   471181.1 3751947.9    521.3     3.49      4.00      3.25
YES
L0015424          0   0.14590E-05   471172.5 3751948.2    520.7     3.49      4.00      3.25
YES
L0015425          0   0.14590E-05   471163.9 3751948.6    520.1     3.49      4.00      3.25
YES
L0015426          0   0.14590E-05   471155.3 3751948.9    519.7     3.49      4.00      3.25
YES
```

🄿🄵 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

```
                                          *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE     RELEASE     INIT.     INIT.
              URBAN  EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)      X        Y       ELEV.    HEIGHT       SY        SZ
   SOURCE  SCALAR VARY
     ID      CATS.                 (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0015427          0   0.14590E-05   471146.8 3751949.2    519.5     3.49      4.00      3.25
YES
L0015428          0   0.14590E-05   471138.2 3751949.5    519.3     3.49      4.00      3.25
YES
L0015429          0   0.14590E-05   471129.6 3751949.8    519.1     3.49      4.00      3.25
YES
L0015430          0   0.14590E-05   471121.0 3751950.2    518.9     3.49      4.00      3.25
YES
L0015431          0   0.14590E-05   471112.4 3751950.5    518.8     3.49      4.00      3.25
YES
L0015432          0   0.14590E-05   471103.8 3751950.8    518.6     3.49      4.00      3.25
YES
L0015433          0   0.14590E-05   471095.3 3751951.1    518.3     3.49      4.00      3.25
YES
L0015434          0   0.14590E-05   471086.7 3751951.5    517.9     3.49      4.00      3.25
YES
L0015435          0   0.18690E-05   471151.0 3751867.4    522.1     3.49      4.00      3.25
YES
L0015436          0   0.18690E-05   471151.0 3751858.8    521.4     3.49      4.00      3.25
YES
```

| L0015437 | 0 | 0.18690E-05 | 471151.0 | 3751850.2 | 520.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015438 | 0 | 0.18690E-05 | 471154.2 | 3751844.8 | 520.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015439 | 0 | 0.18690E-05 | 471162.8 | 3751844.7 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015440 | 0 | 0.18690E-05 | 471171.4 | 3751844.7 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015441 | 0 | 0.18690E-05 | 471180.0 | 3751844.6 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015442 | 0 | 0.18690E-05 | 471188.6 | 3751844.6 | 520.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015443 | 0 | 0.18690E-05 | 471197.2 | 3751844.5 | 520.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015444 | 0 | 0.18690E-05 | 471205.8 | 3751844.5 | 520.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015445 | 0 | 0.18690E-05 | 471214.4 | 3751844.4 | 520.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015446 | 0 | 0.18690E-05 | 471222.9 | 3751844.4 | 519.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015447 | 0 | 0.18690E-05 | 471231.5 | 3751844.3 | 519.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015448 | 0 | 0.18690E-05 | 471240.1 | 3751844.3 | 518.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015449 | 0 | 0.18690E-05 | 471248.7 | 3751844.3 | 518.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015450 | 0 | 0.18690E-05 | 471257.3 | 3751844.2 | 519.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015451 | 0 | 0.18690E-05 | 471265.9 | 3751844.2 | 520.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015452 | 0 | 0.18690E-05 | 471274.5 | 3751844.1 | 522.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015453 | 0 | 0.18690E-05 | 471283.1 | 3751844.1 | 523.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015454 | 0 | 0.18690E-05 | 471291.7 | 3751844.0 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015455 | 0 | 0.18690E-05 | 471300.3 | 3751844.0 | 523.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015456 | 0 | 0.18690E-05 | 471308.8 | 3751843.9 | 524.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015457 | 0 | 0.18690E-05 | 471317.4 | 3751843.9 | 523.8 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015458 | 0 | 0.18690E-05 | 471326.0 | 3751843.8 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015459 | 0 | 0.18690E-05 | 471334.6 | 3751843.8 | 523.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015460 | 0 | 0.18690E-05 | 471343.2 | 3751843.7 | 523.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015461 | 0 | 0.18690E-05 | 471351.8 | 3751843.7 | 523.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015462 | 0 | 0.18690E-05 | 471360.4 | 3751843.6 | 523.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015463 | 0 | 0.18690E-05 | 471369.0 | 3751843.6 | 524.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015464 | 0 | 0.18690E-05 | 471377.6 | 3751843.5 | 524.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015465 | 0 | 0.18690E-05 | 471386.2 | 3751843.5 | 524.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015466 | 0 | 0.18690E-05 | 471394.7 | 3751843.5 | 524.8 | 3.49 | 4.00 | 3.25 |
| YES |

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** VOLUME SOURCE DATA ***

            NUMBER EMISSION RATE                   BASE     RELEASE     INIT.     INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)    X         Y       ELEV.    HEIGHT      SY        SZ
  SOURCE  SCALAR VARY
   ID      CATS.                (METERS)  (METERS) (METERS) (METERS)  (METERS)
  (METERS)          BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - -

L0015467        0   0.18690E-05  471403.3 3751843.4   525.0    3.49      4.00      3.25
YES
L0015468        0   0.18690E-05  471411.9 3751843.4   525.3    3.49      4.00      3.25
YES
L0015469        0   0.18690E-05  471420.5 3751843.3   525.7    3.49      4.00      3.25
YES
L0015470        0   0.18690E-05  471429.1 3751843.3   526.0    3.49      4.00      3.25
YES
L0015471        0   0.18690E-05  471437.7 3751843.2   526.5    3.49      4.00      3.25
YES
L0015472        0   0.18690E-05  471446.3 3751843.2   527.1    3.49      4.00      3.25
YES
L0015473        0   0.18690E-05  471454.9 3751843.1   527.7    3.49      4.00      3.25
YES
L0015474        0   0.18690E-05  471463.5 3751843.1   528.2    3.49      4.00      3.25
YES
L0015475        0   0.18690E-05  471472.1 3751843.0   528.8    3.49      4.00      3.25
YES
L0015476        0   0.18690E-05  471480.6 3751843.0   529.3    3.49      4.00      3.25
YES
L0015477        0   0.18690E-05  471489.2 3751842.9   529.9    3.49      4.00      3.25
YES
L0015478        0   0.18690E-05  471497.8 3751842.9   530.2    3.49      4.00      3.25
YES
L0015479        0   0.18690E-05  471506.4 3751842.8   530.5    3.49      4.00      3.25
YES
L0015480        0   0.18690E-05  471515.0 3751842.8   530.8    3.49      4.00      3.25
YES
L0015481        0   0.18690E-05  471523.6 3751842.7   531.4    3.49      4.00      3.25
YES
L0015482        0   0.18690E-05  471532.2 3751842.7   532.2    3.49      4.00      3.25
YES
L0015483        0   0.18690E-05  471540.8 3751842.7   533.0    3.49      4.00      3.25
YES
L0015484        0   0.18690E-05  471549.4 3751842.6   533.8    3.49      4.00      3.25
YES
L0015485        0   0.18690E-05  471558.0 3751842.6   534.4    3.49      4.00      3.25
YES
L0015486        0   0.18690E-05  471566.5 3751842.5   534.9    3.49      4.00      3.25
YES
L0015487        0   0.18690E-05  471575.1 3751842.5   535.4    3.49      4.00      3.25
YES
L0015488        0   0.18690E-05  471583.7 3751842.4   535.7    3.49      4.00      3.25
YES
L0015489        0   0.18690E-05  471592.3 3751842.4   535.8    3.49      4.00      3.25
YES
L0015490        0   0.18690E-05  471600.9 3751842.3   535.8    3.49      4.00      3.25
YES
L0015491        0   0.18690E-05  471609.5 3751842.3   535.8    3.49      4.00      3.25
YES
L0015492        0   0.18690E-05  471618.1 3751842.2   535.9    3.49      4.00      3.25
YES
```

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L0015493         0   0.18690E-05  471626.7 3751842.2  535.9    3.49    4.00    3.25
YES
L0015494         0   0.18690E-05  471635.3 3751842.1  536.0    3.49    4.00    3.25
YES
L0015495         0   0.18690E-05  471643.8 3751842.1  536.0    3.49    4.00    3.25
YES
L0015496         0   0.18690E-05  471652.4 3751842.0  536.0    3.49    4.00    3.25
YES
L0015497         0   0.18690E-05  471661.0 3751842.0  536.0    3.49    4.00    3.25
YES
L0015498         0   0.18690E-05  471669.6 3751841.9  536.0    3.49    4.00    3.25
YES
L0015499         0   0.18690E-05  471678.2 3751841.9  536.0    3.49    4.00    3.25
YES
L0015500         0   0.18690E-05  471686.8 3751841.9  536.0    3.49    4.00    3.25
YES
L0015501         0   0.18690E-05  471695.4 3751841.8  536.0    3.49    4.00    3.25
YES
L0015502         0   0.18690E-05  471704.0 3751841.8  536.0    3.49    4.00    3.25
YES
L0015503         0   0.18690E-05  471712.6 3751841.7  536.0    3.49    4.00    3.25
YES
L0015504         0   0.18690E-05  471721.2 3751841.7  536.0    3.49    4.00    3.25
YES
L0015505         0   0.18690E-05  471729.7 3751841.6  536.0    3.49    4.00    3.25
YES
L0015506         0   0.18690E-05  471738.3 3751841.6  536.3    3.49    4.00    3.25
YES
```

FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

```
             NUMBER EMISSION RATE                  BASE    RELEASE    INIT.    INIT.
             URBAN  EMISSION RATE
  SOURCE     PART.  (GRAMS/SEC)    X        Y      ELEV.   HEIGHT     SY       SZ
  SOURCE   SCALAR VARY
    ID       CATS.             (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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L0015507         0   0.18690E-05  471746.9 3751841.5  536.6    3.49    4.00    3.25
YES
L0015508         0   0.18690E-05  471748.5 3751834.5  536.6    3.49    4.00    3.25
YES
L0015509         0   0.18690E-05  471748.6 3751825.9  536.6    3.49    4.00    3.25
YES
L0015510         0   0.18690E-05  471748.6 3751817.3  536.6    3.49    4.00    3.25
YES
L0015511         0   0.18690E-05  471748.7 3751808.7  536.6    3.49    4.00    3.25
YES
L0015512         0   0.18690E-05  471748.8 3751800.1  536.6    3.49    4.00    3.25
YES
L0015513         0   0.18690E-05  471748.8 3751791.5  536.6    3.49    4.00    3.25
YES
L0015514         0   0.18690E-05  471748.9 3751782.9  536.6    3.49    4.00    3.25
YES
L0015515         0   0.18690E-05  471749.0 3751774.3  536.4    3.49    4.00    3.25
YES
```

```
L0015516          0   0.18690E-05   471749.0 3751765.7   536.2    3.49    4.00    3.25
YES
L0015517          0   0.18690E-05   471749.1 3751757.1   536.0    3.49    4.00    3.25
YES
L0015518          0   0.18690E-05   471749.1 3751748.6   535.9    3.49    4.00    3.25
YES
L0015519          0   0.18690E-05   471749.2 3751740.0   535.8    3.49    4.00    3.25
YES
L0015520          0   0.18690E-05   471749.3 3751731.4   535.7    3.49    4.00    3.25
YES
L0015521          0   0.18690E-05   471749.3 3751722.8   535.7    3.49    4.00    3.25
YES
L0015522          0   0.18690E-05   471749.4 3751714.2   535.7    3.49    4.00    3.25
YES
L0015523          0   0.18690E-05   471749.5 3751705.6   535.7    3.49    4.00    3.25
YES
L0015524          0   0.18690E-05   471749.5 3751697.0   535.7    3.49    4.00    3.25
YES
L0015525          0   0.18690E-05   471749.6 3751688.4   535.7    3.49    4.00    3.25
YES
L0015526          0   0.18690E-05   471749.7 3751679.8   535.7    3.49    4.00    3.25
YES
L0015527          0   0.18690E-05   471749.7 3751671.2   535.7    3.49    4.00    3.25
YES
L0015528          0   0.18690E-05   471749.8 3751662.7   535.5    3.49    4.00    3.25
YES
L0015529          0   0.18690E-05   471749.8 3751654.1   535.3    3.49    4.00    3.25
YES
L0015530          0   0.18690E-05   471749.9 3751645.5   535.0    3.49    4.00    3.25
YES
L0015531          0   0.18690E-05   471750.0 3751636.9   534.7    3.49    4.00    3.25
YES
L0015532          0   0.18690E-05   471750.0 3751628.3   534.7    3.49    4.00    3.25
YES
L0015533          0   0.18690E-05   471750.1 3751619.7   534.7    3.49    4.00    3.25
YES
L0015534          0   0.18690E-05   471750.2 3751611.1   534.7    3.49    4.00    3.25
YES
L0015535          0   0.18690E-05   471750.2 3751602.5   534.6    3.49    4.00    3.25
YES
L0015536          0   0.18690E-05   471750.3 3751593.9   534.6    3.49    4.00    3.25
YES
L0015537          0   0.18690E-05   471750.4 3751585.4   534.5    3.49    4.00    3.25
YES
L0015538          0   0.18690E-05   471750.4 3751576.8   534.4    3.49    4.00    3.25
YES
L0015539          0   0.18690E-05   471742.4 3751576.2   533.8    3.49    4.00    3.25
YES
L0015540          0   0.18690E-05   471733.8 3751576.1   533.3    3.49    4.00    3.25
YES
L0015541          0   0.18690E-05   471725.2 3751576.1   532.7    3.49    4.00    3.25
YES
L0015542          0   0.18690E-05   471716.6 3751576.1   532.1    3.49    4.00    3.25
YES
L0015543          0   0.18690E-05   471708.0 3751576.1   531.6    3.49    4.00    3.25
YES
L0015544          0   0.18690E-05   471699.4 3751576.0   531.0    3.49    4.00    3.25
YES
L0015545          0   0.18690E-05   471690.9 3751576.0   530.4    3.49    4.00    3.25
YES
L0015546          0   0.18690E-05   471682.3 3751576.0   529.8    3.49    4.00    3.25
YES
```

                                    *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)								

- -

Source ID	Num Part. Scalar Cats.	Emission Rate	X	Y	Base Elev.	Release Height	Init. SY	Init. SZ	Urban Vary By
L0015547	0	0.18690E-05	471673.7	3751575.9	529.3	3.49	4.00	3.25	YES
L0015548	0	0.18690E-05	471665.1	3751575.9	529.0	3.49	4.00	3.25	YES
L0015549	0	0.18690E-05	471656.5	3751575.9	529.0	3.49	4.00	3.25	YES
L0015550	0	0.18690E-05	471647.9	3751575.8	529.0	3.49	4.00	3.25	YES
L0015551	0	0.18690E-05	471639.3	3751575.8	529.0	3.49	4.00	3.25	YES
L0015552	0	0.18690E-05	471630.7	3751575.8	529.0	3.49	4.00	3.25	YES
L0015553	0	0.18690E-05	471622.1	3751575.8	529.0	3.49	4.00	3.25	YES
L0015554	0	0.18690E-05	471613.5	3751575.7	529.0	3.49	4.00	3.25	YES
L0015555	0	0.18690E-05	471605.0	3751575.7	529.2	3.49	4.00	3.25	YES
L0015556	0	0.18690E-05	471596.4	3751575.7	529.5	3.49	4.00	3.25	YES
L0015557	0	0.18690E-05	471587.8	3751575.6	529.7	3.49	4.00	3.25	YES
L0015558	0	0.18690E-05	471579.2	3751575.6	530.0	3.49	4.00	3.25	YES
L0015559	0	0.18690E-05	471570.6	3751575.6	530.0	3.49	4.00	3.25	YES
L0015560	0	0.18690E-05	471562.0	3751575.5	530.0	3.49	4.00	3.25	YES
L0015561	0	0.18690E-05	471553.4	3751575.5	530.0	3.49	4.00	3.25	YES
L0015562	0	0.18690E-05	471544.8	3751575.5	530.2	3.49	4.00	3.25	YES
L0015563	0	0.18690E-05	471536.2	3751575.5	530.5	3.49	4.00	3.25	YES
L0015564	0	0.18690E-05	471527.6	3751575.4	530.8	3.49	4.00	3.25	YES
L0015565	0	0.18690E-05	471519.1	3751575.4	531.0	3.49	4.00	3.25	YES
L0015566	0	0.18690E-05	471510.5	3751575.4	531.0	3.49	4.00	3.25	YES
L0015567	0	0.18690E-05	471501.9	3751575.3	531.0	3.49	4.00	3.25	YES
L0015568	0	0.18690E-05	471493.3	3751575.3	531.0	3.49	4.00	3.25	YES
L0015569	0	0.18690E-05	471484.7	3751575.3	531.4	3.49	4.00	3.25	YES
L0015570	0	0.18690E-05	471476.1	3751575.2	531.9	3.49	4.00	3.25	YES
L0015571	0	0.18690E-05	471467.5	3751575.2	532.5	3.49	4.00	3.25	YES

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)
L0015572	0	0.18690E-05	471458.9	3751575.2	533.0	3.49
L0015573	0	0.18690E-05	471450.3	3751575.2	533.3	3.49
L0015574	0	0.18690E-05	471441.7	3751575.1	533.6	3.49
L0015575	0	0.18690E-05	471433.2	3751575.1	533.9	3.49
L0015576	0	0.18690E-05	471424.6	3751575.1	534.3	3.49
L0015577	0	0.18690E-05	471416.0	3751575.0	534.9	3.49
L0015578	0	0.18690E-05	471407.4	3751575.0	535.4	3.49
L0015579	0	0.18690E-05	471398.8	3751575.0	536.0	3.49
L0015580	0	0.18690E-05	471390.2	3751574.9	536.2	3.49
L0015581	0	0.18690E-05	471381.6	3751574.9	536.5	3.49
L0015582	0	0.18690E-05	471373.0	3751574.9	536.8	3.49
L0015583	0	0.18690E-05	471364.4	3751574.9	536.7	3.49
L0015584	0	0.18690E-05	471355.8	3751574.8	536.4	3.49
L0015585	0	0.18690E-05	471347.3	3751574.8	536.1	3.49
L0015586	0	0.18690E-05	471338.7	3751574.8	535.7	3.49

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                      *** VOLUME SOURCE DATA ***

	NUMBER	EMISSION RATE			BASE	RELEASE	INIT.	INIT.
	URBAN	EMISSION RATE						
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY	SZ
SOURCE	SCALAR	VARY						
ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	
(METERS)		BY						

| L0015587 | 0 | 0.18690E-05 | 471330.1 | 3751574.7 | 534.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015588 | 0 | 0.18690E-05 | 471321.5 | 3751574.7 | 533.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015589 | 0 | 0.18690E-05 | 471312.9 | 3751574.7 | 531.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015590 | 0 | 0.18690E-05 | 471304.3 | 3751574.6 | 530.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015591 | 0 | 0.18690E-05 | 471295.7 | 3751574.6 | 530.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015592 | 0 | 0.18690E-05 | 471287.1 | 3751574.6 | 530.3 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015593 | 0 | 0.18690E-05 | 471278.5 | 3751574.6 | 530.0 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015594 | 0 | 0.18690E-05 | 471269.9 | 3751574.5 | 529.8 | 3.49 | 4.00 | 3.25 |
| YES |

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L0015595          0    0.18690E-05   471261.4 3751574.5   529.5    3.49    4.00    3.25
   YES
L0015596          0    0.18690E-05   471252.8 3751574.5   529.2    3.49    4.00    3.25
   YES
L0015597          0    0.18690E-05   471244.2 3751574.4   528.7    3.49    4.00    3.25
   YES
L0015598          0    0.18690E-05   471235.6 3751574.4   528.2    3.49    4.00    3.25
   YES
L0015599          0    0.18690E-05   471227.0 3751574.4   527.6    3.49    4.00    3.25
   YES
L0015600          0    0.18690E-05   471218.4 3751574.3   527.1    3.49    4.00    3.25
   YES
L0015601          0    0.18690E-05   471209.8 3751574.3   527.1    3.49    4.00    3.25
   YES
L0015602          0    0.18690E-05   471201.2 3751574.3   527.1    3.49    4.00    3.25
   YES
L0015603          0    0.18690E-05   471192.6 3751574.3   527.0    3.49    4.00    3.25
   YES
L0015604          0    0.18690E-05   471184.1 3751573.9   526.8    3.49    4.00    3.25
   YES
L0015605          0    0.18690E-05   471175.5 3751573.0   526.5    3.49    4.00    3.25
   YES
L0015606          0    0.18690E-05   471167.0 3751572.0   526.1    3.49    4.00    3.25
   YES
L0015607          0    0.18690E-05   471158.5 3751571.1   525.8    3.49    4.00    3.25
   YES
L0015608          0    0.18690E-05   471154.3 3751564.0   525.5    3.49    4.00    3.25
   YES
L0015609          0    0.18690E-05   471153.6 3751555.5   525.2    3.49    4.00    3.25
   YES
L0015610          0    0.18690E-05   471153.6 3751546.9   524.8    3.49    4.00    3.25
   YES
L0015611          0    0.18690E-05   471153.6 3751538.4   524.8    3.49    4.00    3.25
   YES
L0015612          0    0.79940E-06   472059.6 3751899.3   527.0    3.49    4.00    3.25
   YES
L0015613          0    0.79940E-06   472062.2 3751907.5   526.0    3.49    4.00    3.25
   YES
L0015614          0    0.79940E-06   472064.7 3751915.7   525.7    3.49    4.00    3.25
   YES
L0015615          0    0.79940E-06   472067.3 3751923.9   525.2    3.49    4.00    3.25
   YES
L0015616          0    0.79940E-06   472068.7 3751932.3   524.7    3.49    4.00    3.25
   YES
L0015617          0    0.79940E-06   472068.5 3751940.9   523.9    3.49    4.00    3.25
   YES
L0015618          0    0.79940E-06   472068.4 3751949.5   522.8    3.49    4.00    3.25
   YES
L0015619          0    0.79940E-06   472068.2 3751958.0   521.8    3.49    4.00    3.25
   YES
L0015620          0    0.79940E-06   472068.0 3751966.6   520.7    3.49    4.00    3.25
   YES
L0015621          0    0.79940E-06   472067.8 3751975.2   521.0    3.49    4.00    3.25
   YES
L0015622          0    0.79940E-06   472067.7 3751983.8   521.3    3.49    4.00    3.25
   YES
L0015623          0    0.79940E-06   472067.5 3751992.4   521.5    3.49    4.00    3.25
   YES
L0015624          0    0.79940E-06   472067.3 3752001.0   521.9    3.49    4.00    3.25
   YES
L0015625          0    0.79940E-06   472067.1 3752009.6   522.3    3.49    4.00    3.25
   YES
L0015626          0    0.79940E-06   472067.0 3752018.2   522.7    3.49    4.00    3.25
   YES
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*** AERMET - VERSION  16216 ***
***                                                           ***        16:21:25

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*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                         *** VOLUME SOURCE DATA ***

             NUMBER EMISSION RATE                    BASE     RELEASE    INIT.     INIT.
             URBAN  EMISSION RATE
 SOURCE      PART.  (GRAMS/SEC)      X        Y       ELEV.    HEIGHT     SY        SZ
 SOURCE  SCALAR VARY
   ID        CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0015627       0   0.79940E-06  472066.8 3752026.8   523.0     3.49      4.00      3.25
YES
L0015628       0   0.79940E-06  472066.6 3752035.3   522.9     3.49      4.00      3.25
YES
L0015629       0   0.79940E-06  472066.4 3752043.9   522.8     3.49      4.00      3.25
YES
L0015630       0   0.79940E-06  472066.3 3752052.5   522.7     3.49      4.00      3.25
YES
L0015631       0   0.79940E-06  472066.1 3752061.1   522.8     3.49      4.00      3.25
YES
L0015632       0   0.79940E-06  472065.9 3752069.7   523.2     3.49      4.00      3.25
YES
L0015633       0   0.79940E-06  472065.7 3752078.3   523.5     3.49      4.00      3.25
YES
L0015634       0   0.79940E-06  472065.6 3752086.9   523.8     3.49      4.00      3.25
YES
L0015635       0   0.79940E-06  472065.4 3752095.5   523.9     3.49      4.00      3.25
YES
L0015636       0   0.79940E-06  472065.2 3752104.0   524.0     3.49      4.00      3.25
YES
L0015637       0   0.79940E-06  472065.0 3752112.6   524.1     3.49      4.00      3.25
YES
L0015638       0   0.79940E-06  472064.9 3752121.2   524.0     3.49      4.00      3.25
YES
L0015639       0   0.79940E-06  472064.7 3752129.8   523.7     3.49      4.00      3.25
YES
L0015640       0   0.79940E-06  472064.5 3752138.4   523.4     3.49      4.00      3.25
YES
L0015641       0   0.79940E-06  472064.3 3752147.0   523.2     3.49      4.00      3.25
YES
L0015642       0   0.79940E-06  472064.2 3752155.6   522.7     3.49      4.00      3.25
YES
L0015643       0   0.79940E-06  472064.0 3752164.2   522.3     3.49      4.00      3.25
YES
L0015644       0   0.79940E-06  472063.8 3752172.8   521.8     3.49      4.00      3.25
YES
L0015645       0   0.79940E-06  472063.6 3752181.3   521.5     3.49      4.00      3.25
YES
L0015646       0   0.79940E-06  472063.5 3752189.9   521.3     3.49      4.00      3.25
YES
L0015647       0   0.79940E-06  472063.3 3752198.5   521.1     3.49      4.00      3.25
YES
L0015648       0   0.79940E-06  472063.1 3752207.1   520.9     3.49      4.00      3.25
YES
L0015649       0   0.79940E-06  472063.0 3752215.7   520.6     3.49      4.00      3.25
YES
L0015650       0   0.79940E-06  472056.8 3752218.2   520.6     3.49      4.00      3.25
YES
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L0015651          0   0.79940E-06  472048.2 3752218.3   520.6    3.49     4.00     3.25
YES
L0015652          0   0.79940E-06  472039.6 3752218.3   520.6    3.49     4.00     3.25
YES
L0015653          0   0.79940E-06  472031.0 3752218.4   520.6    3.49     4.00     3.25
YES
L0015654          0   0.79940E-06  472022.4 3752218.4   520.0    3.49     4.00     3.25
YES
L0015655          0   0.79940E-06  472013.9 3752218.5   519.2    3.49     4.00     3.25
YES
L0015656          0   0.79940E-06  472005.3 3752218.5   518.5    3.49     4.00     3.25
YES
L0015657          0   0.79940E-06  471996.7 3752218.5   518.0    3.49     4.00     3.25
YES
L0015658          0   0.79940E-06  471988.1 3752218.6   517.8    3.49     4.00     3.25
YES
L0015659          0   0.79940E-06  471979.5 3752218.6   517.7    3.49     4.00     3.25
YES
L0015660          0   0.79940E-06  471970.9 3752218.7   517.6    3.49     4.00     3.25
YES
L0015661          0   0.79940E-06  471962.3 3752218.7   517.8    3.49     4.00     3.25
YES
L0015662          0   0.79940E-06  471953.7 3752218.8   518.1    3.49     4.00     3.25
YES
L0015663          0   0.79940E-06  471945.1 3752218.8   518.4    3.49     4.00     3.25
YES
L0015664          0   0.79940E-06  471936.5 3752218.9   518.7    3.49     4.00     3.25
YES
L0015665          0   0.79940E-06  471928.0 3752218.9   519.0    3.49     4.00     3.25
YES
L0015666          0   0.79940E-06  471919.4 3752219.0   519.3    3.49     4.00     3.25
YES
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FF *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                  *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015667	0	0.79940E-06	471910.8	3752219.0	519.5	3.49	4.00	3.25
YES								
L0015668	0	0.79940E-06	471902.2	3752219.1	519.6	3.49	4.00	3.25
YES								
L0015669	0	0.79940E-06	471893.6	3752219.1	519.6	3.49	4.00	3.25
YES								
L0015670	0	0.79940E-06	471885.0	3752219.2	519.6	3.49	4.00	3.25
YES								
L0015671	0	0.79940E-06	471876.4	3752219.2	519.5	3.49	4.00	3.25
YES								
L0015672	0	0.79940E-06	471867.8	3752219.3	519.3	3.49	4.00	3.25
YES								
L0015673	0	0.79940E-06	471859.2	3752219.3	519.2	3.49	4.00	3.25
YES								

L0015674	0	0.79940E-06	471850.7	3752219.3	519.0	3.49	4.00	3.25
YES								
L0015675	0	0.79940E-06	471842.1	3752219.4	518.6	3.49	4.00	3.25
YES								
L0015676	0	0.79940E-06	471833.5	3752219.4	518.2	3.49	4.00	3.25
YES								
L0015677	0	0.79940E-06	471824.9	3752219.5	517.8	3.49	4.00	3.25
YES								
L0015678	0	0.79940E-06	471823.2	3752212.7	517.9	3.49	4.00	3.25
YES								
L0015679	0	0.79940E-06	471823.3	3752204.1	518.3	3.49	4.00	3.25
YES								
L0015680	0	0.79940E-06	471823.4	3752195.5	518.9	3.49	4.00	3.25
YES								
L0015681	0	0.79940E-06	471823.6	3752186.9	519.4	3.49	4.00	3.25
YES								
L0015682	0	0.79940E-06	471823.7	3752178.3	520.0	3.49	4.00	3.25
YES								
L0015683	0	0.79940E-06	471823.8	3752169.7	520.6	3.49	4.00	3.25
YES								
L0015684	0	0.79940E-06	471823.9	3752161.1	521.2	3.49	4.00	3.25
YES								
L0015685	0	0.79940E-06	471824.0	3752152.5	521.9	3.49	4.00	3.25
YES								
L0015686	0	0.79940E-06	471824.1	3752143.9	522.6	3.49	4.00	3.25
YES								
L0015687	0	0.79940E-06	471824.2	3752135.3	523.4	3.49	4.00	3.25
YES								
L0015688	0	0.79940E-06	471824.3	3752126.8	524.2	3.49	4.00	3.25
YES								
L0015689	0	0.79940E-06	471824.4	3752118.2	525.0	3.49	4.00	3.25
YES								
L0015690	0	0.79940E-06	471824.5	3752109.6	525.4	3.49	4.00	3.25
YES								
L0015691	0	0.79940E-06	471824.6	3752101.0	525.8	3.49	4.00	3.25
YES								
L0015692	0	0.79940E-06	471824.8	3752092.4	526.1	3.49	4.00	3.25
YES								
L0015693	0	0.79940E-06	471824.9	3752083.8	526.5	3.49	4.00	3.25
YES								
L0015694	0	0.79940E-06	471825.0	3752075.2	526.8	3.49	4.00	3.25
YES								
L0015695	0	0.79940E-06	471825.1	3752066.6	527.2	3.49	4.00	3.25
YES								
L0015696	0	0.79940E-06	471825.2	3752058.0	527.5	3.49	4.00	3.25
YES								
L0015697	0	0.79940E-06	471825.3	3752049.5	527.9	3.49	4.00	3.25
YES								
L0015698	0	0.79940E-06	471825.4	3752040.9	528.2	3.49	4.00	3.25
YES								
L0015699	0	0.79940E-06	471825.5	3752032.3	528.6	3.49	4.00	3.25
YES								
L0015700	0	0.79940E-06	471825.6	3752023.7	529.0	3.49	4.00	3.25
YES								
L0015701	0	0.79940E-06	471825.7	3752015.1	529.7	3.49	4.00	3.25
YES								
L0015702	0	0.79940E-06	471825.8	3752006.5	530.3	3.49	4.00	3.25
YES								
L0015703	0	0.79940E-06	471826.0	3751997.9	531.0	3.49	4.00	3.25
YES								
L0015704	0	0.79940E-06	471826.1	3751989.3	531.5	3.49	4.00	3.25
YES								
L0015705	0	0.79940E-06	471826.2	3751980.7	532.0	3.49	4.00	3.25
YES								
L0015706	0	0.79940E-06	471826.3	3751972.2	532.6	3.49	4.00	3.25
YES								

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015707 YES	0	0.79940E-06	471826.4	3751963.6	533.1	3.49	4.00	3.25
L0015708 YES	0	0.79940E-06	471826.5	3751955.0	533.7	3.49	4.00	3.25
L0015709 YES	0	0.79940E-06	471826.6	3751946.4	534.3	3.49	4.00	3.25
L0015710 YES	0	0.79940E-06	471826.7	3751937.8	534.9	3.49	4.00	3.25
L0015711 YES	0	0.79940E-06	471826.8	3751929.2	535.3	3.49	4.00	3.25
L0015712 YES	0	0.79940E-06	471826.9	3751920.6	535.7	3.49	4.00	3.25
L0015713 YES	0	0.79940E-06	471827.0	3751912.0	536.0	3.49	4.00	3.25
L0015714 YES	0	0.68590E-07	471804.5	3751645.8	537.3	3.49	4.00	3.25
L0015715 YES	0	0.68590E-07	471813.1	3751646.0	537.9	3.49	4.00	3.25
L0015716 YES	0	0.68590E-07	471821.7	3751646.2	538.5	3.49	4.00	3.25
L0015717 YES	0	0.68590E-07	471824.5	3751652.1	538.8	3.49	4.00	3.25
L0015718 YES	0	0.68590E-07	471824.6	3751660.7	539.0	3.49	4.00	3.25
L0015719 YES	0	0.68590E-07	471824.6	3751669.3	539.1	3.49	4.00	3.25
L0015720 YES	0	0.68590E-07	471824.7	3751677.9	538.8	3.49	4.00	3.25
L0015721 YES	0	0.68590E-07	471824.8	3751686.5	538.5	3.49	4.00	3.25
L0015722 YES	0	0.68590E-07	471824.9	3751695.1	538.2	3.49	4.00	3.25
L0015723 YES	0	0.68590E-07	471824.9	3751703.7	538.2	3.49	4.00	3.25
L0015724 YES	0	0.68590E-07	471825.0	3751712.2	538.2	3.49	4.00	3.25
L0015725 YES	0	0.68590E-07	471825.1	3751720.8	538.2	3.49	4.00	3.25
L0015726 YES	0	0.68590E-07	471825.2	3751729.4	538.2	3.49	4.00	3.25
L0015727 YES	0	0.68590E-07	471825.2	3751738.0	538.2	3.49	4.00	3.25
L0015728 YES	0	0.68590E-07	471825.3	3751746.6	538.2	3.49	4.00	3.25
L0015729 YES	0	0.68590E-07	471825.4	3751755.2	538.2	3.49	4.00	3.25

| L0015730 | 0 | 0.68590E-07 | 471825.5 | 3751763.8 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015731 | 0 | 0.68590E-07 | 471825.5 | 3751772.4 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015732 | 0 | 0.68590E-07 | 471825.6 | 3751781.0 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015733 | 0 | 0.68590E-07 | 471825.7 | 3751789.6 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015734 | 0 | 0.68590E-07 | 471825.8 | 3751798.1 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015735 | 0 | 0.68590E-07 | 471825.8 | 3751806.7 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015736 | 0 | 0.68590E-07 | 471825.9 | 3751815.3 | 538.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015737 | 0 | 0.68590E-07 | 471826.0 | 3751823.9 | 537.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015738 | 0 | 0.68590E-07 | 471826.1 | 3751832.5 | 537.6 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015739 | 0 | 0.68590E-07 | 471826.1 | 3751841.1 | 537.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015740 | 0 | 0.68590E-07 | 471826.2 | 3751849.7 | 536.9 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015741 | 0 | 0.68590E-07 | 471826.3 | 3751858.3 | 536.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015742 | 0 | 0.68590E-07 | 471826.4 | 3751866.9 | 536.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015743 | 0 | 0.84410E-07 | 471470.8 | 3751499.2 | 534.2 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015744 | 0 | 0.84410E-07 | 471471.0 | 3751490.6 | 534.5 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015745 | 0 | 0.84410E-07 | 471471.2 | 3751482.0 | 534.7 | 3.49 | 4.00 | 3.25 |
| YES |
| L0015746 | 0 | 0.84410E-07 | 471471.4 | 3751473.4 | 534.9 | 3.49 | 4.00 | 3.25 |
| YES |

🔲 *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 *** 11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015747	0	0.84410E-07	471471.6	3751464.8	535.0	3.49	4.00	3.25
YES
L0015748	0	0.84410E-07	471471.8	3751456.3	535.2	3.49	4.00	3.25
YES
L0015749	0	0.84410E-07	471472.0	3751447.7	535.0	3.49	4.00	3.25
YES
L0015750	0	0.84410E-07	471472.2	3751439.1	534.8	3.49	4.00	3.25
YES
L0015751	0	0.84410E-07	471472.4	3751430.5	534.6	3.49	4.00	3.25
YES
L0015752	0	0.84410E-07	471472.7	3751421.9	534.4	3.49	4.00	3.25
YES

L0015753	0	0.84410E-07	471472.9	3751413.3	534.1	3.49	4.00	3.25
YES								
L0015754	0	0.84410E-07	471473.1	3751404.7	533.8	3.49	4.00	3.25
YES								
L0015755	0	0.84410E-07	471473.3	3751396.1	533.5	3.49	4.00	3.25
YES								
L0015756	0	0.84410E-07	471473.5	3751387.6	533.1	3.49	4.00	3.25
YES								
L0015757	0	0.84410E-07	471473.7	3751379.0	532.7	3.49	4.00	3.25
YES								
L0015758	0	0.84410E-07	471473.9	3751370.4	532.2	3.49	4.00	3.25
YES								
L0015759	0	0.84410E-07	471474.1	3751361.8	531.8	3.49	4.00	3.25
YES								
L0015760	0	0.84410E-07	471474.3	3751353.2	531.3	3.49	4.00	3.25
YES								
L0015761	0	0.84410E-07	471474.5	3751344.6	530.9	3.49	4.00	3.25
YES								
L0015762	0	0.84410E-07	471474.7	3751336.0	530.4	3.49	4.00	3.25
YES								
L0015763	0	0.84410E-07	471474.9	3751327.4	529.9	3.49	4.00	3.25
YES								
L0015764	0	0.84410E-07	471475.1	3751318.9	529.3	3.49	4.00	3.25
YES								
L0015765	0	0.84410E-07	471475.3	3751310.3	528.7	3.49	4.00	3.25
YES								
L0015766	0	0.84410E-07	471475.5	3751301.7	528.2	3.49	4.00	3.25
YES								
L0015767	0	0.84410E-07	471475.7	3751293.1	527.8	3.49	4.00	3.25
YES								
L0015768	0	0.84410E-07	471475.9	3751284.5	527.4	3.49	4.00	3.25
YES								
L0015769	0	0.84410E-07	471476.1	3751275.9	527.1	3.49	4.00	3.25
YES								
L0015770	0	0.84410E-07	471476.4	3751267.3	526.8	3.49	4.00	3.25
YES								
L0015771	0	0.84410E-07	471476.6	3751258.7	526.5	3.49	4.00	3.25
YES								
L0015772	0	0.86710E-07	471418.4	3751499.2	535.9	3.49	4.00	3.25
YES								
L0015773	0	0.86710E-07	471418.5	3751490.6	536.2	3.49	4.00	3.25
YES								
L0015774	0	0.86710E-07	471418.6	3751482.0	536.5	3.49	4.00	3.25
YES								
L0015775	0	0.86710E-07	471418.8	3751473.4	536.6	3.49	4.00	3.25
YES								
L0015776	0	0.86710E-07	471418.9	3751464.8	536.8	3.49	4.00	3.25
YES								
L0015777	0	0.86710E-07	471419.1	3751456.3	537.0	3.49	4.00	3.25
YES								
L0015778	0	0.86710E-07	471419.2	3751447.7	536.8	3.49	4.00	3.25
YES								
L0015779	0	0.86710E-07	471419.3	3751439.1	536.6	3.49	4.00	3.25
YES								
L0015780	0	0.86710E-07	471419.5	3751430.5	536.4	3.49	4.00	3.25
YES								
L0015781	0	0.86710E-07	471419.6	3751421.9	536.2	3.49	4.00	3.25
YES								
L0015782	0	0.86710E-07	471419.7	3751413.3	535.9	3.49	4.00	3.25
YES								
L0015783	0	0.86710E-07	471419.9	3751404.7	535.6	3.49	4.00	3.25
YES								
L0015784	0	0.86710E-07	471420.0	3751396.1	535.3	3.49	4.00	3.25
YES								
L0015785	0	0.86710E-07	471420.2	3751387.5	534.7	3.49	4.00	3.25
YES								

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L0015786         0   0.86710E-07  471420.3 3751379.0  534.1     3.49     4.00     3.25
  YES
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015787 YES	0	0.86710E-07	471420.4	3751370.4	533.5	3.49	4.00	3.25
L0015788 YES	0	0.86710E-07	471420.6	3751361.8	532.9	3.49	4.00	3.25
L0015789 YES	0	0.86710E-07	471420.7	3751353.2	532.1	3.49	4.00	3.25
L0015790 YES	0	0.86710E-07	471420.9	3751344.6	531.4	3.49	4.00	3.25
L0015791 YES	0	0.86710E-07	471421.0	3751336.0	530.7	3.49	4.00	3.25
L0015792 YES	0	0.86710E-07	471421.1	3751327.4	530.1	3.49	4.00	3.25
L0015793 YES	0	0.86710E-07	471421.3	3751318.8	529.5	3.49	4.00	3.25
L0015794 YES	0	0.86710E-07	471421.4	3751310.2	529.0	3.49	4.00	3.25
L0015795 YES	0	0.86710E-07	471421.5	3751301.7	528.3	3.49	4.00	3.25
L0015796 YES	0	0.86710E-07	471421.7	3751293.1	527.5	3.49	4.00	3.25
L0015797 YES	0	0.86710E-07	471421.8	3751284.5	526.7	3.49	4.00	3.25
L0015798 YES	0	0.86710E-07	471422.0	3751275.9	525.9	3.49	4.00	3.25
L0015799 YES	0	0.86710E-07	471422.1	3751267.3	525.4	3.49	4.00	3.25
L0015800 YES	0	0.86480E-07	471107.1	3752271.6	511.0	3.49	4.00	3.25
L0015801 YES	0	0.86480E-07	471107.1	3752280.2	510.6	3.49	4.00	3.25
L0015802 YES	0	0.86480E-07	471107.1	3752288.8	510.2	3.49	4.00	3.25
L0015803 YES	0	0.86480E-07	471107.1	3752297.4	509.8	3.49	4.00	3.25
L0015804 YES	0	0.86480E-07	471114.3	3752298.8	510.5	3.49	4.00	3.25
L0015805 YES	0	0.86480E-07	471122.9	3752298.8	511.3	3.49	4.00	3.25
L0015806 YES	0	0.86480E-07	471131.5	3752298.8	511.9	3.49	4.00	3.25
L0015807 YES	0	0.86480E-07	471140.1	3752298.9	512.0	3.49	4.00	3.25
L0015808 YES	0	0.86480E-07	471148.7	3752298.9	512.0	3.49	4.00	3.25

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L0015809        0    0.86480E-07  471157.3 3752298.9   512.1    3.49     4.00     3.25
  YES
L0015810        0    0.86480E-07  471165.9 3752298.9   512.5    3.49     4.00     3.25
  YES
L0015811        0    0.86480E-07  471174.5 3752299.0   513.0    3.49     4.00     3.25
  YES
L0015812        0    0.86480E-07  471183.1 3752299.0   513.5    3.49     4.00     3.25
  YES
L0015813        0    0.86480E-07  471191.6 3752299.0   513.9    3.49     4.00     3.25
  YES
L0015814        0    0.86480E-07  471200.2 3752299.1   513.9    3.49     4.00     3.25
  YES
L0015815        0    0.86480E-07  471208.8 3752299.1   513.9    3.49     4.00     3.25
  YES
L0015816        0    0.86480E-07  471217.4 3752299.1   513.9    3.49     4.00     3.25
  YES
L0015817        0    0.86480E-07  471226.0 3752299.1   513.5    3.49     4.00     3.25
  YES
L0015818        0    0.86480E-07  471234.6 3752299.2   512.9    3.49     4.00     3.25
  YES
L0015819        0    0.86480E-07  471243.2 3752299.2   512.4    3.49     4.00     3.25
  YES
L0015820        0    0.86480E-07  471251.8 3752299.2   512.1    3.49     4.00     3.25
  YES
L0015821        0    0.86480E-07  471260.4 3752299.2   512.4    3.49     4.00     3.25
  YES
L0015822        0    0.86480E-07  471269.0 3752299.3   512.6    3.49     4.00     3.25
  YES
L0015823        0    0.86480E-07  471277.5 3752299.3   512.9    3.49     4.00     3.25
  YES
L0015824        0    0.86480E-07  471286.1 3752299.3   513.0    3.49     4.00     3.25
  YES
L0015825        0    0.86480E-07  471294.7 3752299.3   512.9    3.49     4.00     3.25
  YES
L0015826        0    0.86480E-07  471303.3 3752299.4   512.9    3.49     4.00     3.25
  YES
```

⏸ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.   INIT.
              URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ
   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
    (METERS)   BY
- -
- - - - - - - - - - - - -

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L0015827        0    0.86480E-07  471311.9 3752299.4   512.9    3.49     4.00     3.25
  YES
L0015828        0    0.86480E-07  471317.4 3752296.3   513.0    3.49     4.00     3.25
  YES
L0015829        0    0.86480E-07  471317.4 3752287.7   513.8    3.49     4.00     3.25
  YES
L0015830        0    0.86480E-07  471317.4 3752279.2   514.5    3.49     4.00     3.25
  YES
L0015831        0    0.86060E-07  471343.6 3752274.9   516.0    3.49     4.00     3.25
  YES
```

L0015832	0	0.86060E-07	471343.6	3752283.5	514.9	3.49	4.00	3.25
YES								
L0015833	0	0.86060E-07	471343.6	3752292.1	513.8	3.49	4.00	3.25
YES								
L0015834	0	0.86060E-07	471343.6	3752300.7	513.1	3.49	4.00	3.25
YES								
L0015835	0	0.86060E-07	471352.1	3752300.8	513.7	3.49	4.00	3.25
YES								
L0015836	0	0.86060E-07	471360.7	3752300.9	514.3	3.49	4.00	3.25
YES								
L0015837	0	0.86060E-07	471369.3	3752301.1	514.8	3.49	4.00	3.25
YES								
L0015838	0	0.86060E-07	471377.9	3752301.2	514.8	3.49	4.00	3.25
YES								
L0015839	0	0.86060E-07	471386.5	3752301.3	514.7	3.49	4.00	3.25
YES								
L0015840	0	0.86060E-07	471395.1	3752301.4	514.6	3.49	4.00	3.25
YES								
L0015841	0	0.86060E-07	471403.7	3752301.5	514.5	3.49	4.00	3.25
YES								
L0015842	0	0.86060E-07	471412.3	3752301.6	514.6	3.49	4.00	3.25
YES								
L0015843	0	0.86060E-07	471420.8	3752301.7	514.6	3.49	4.00	3.25
YES								
L0015844	0	0.86060E-07	471429.4	3752301.8	514.6	3.49	4.00	3.25
YES								
L0015845	0	0.86060E-07	471438.0	3752301.9	515.4	3.49	4.00	3.25
YES								
L0015846	0	0.86060E-07	471446.6	3752302.0	516.1	3.49	4.00	3.25
YES								
L0015847	0	0.86060E-07	471455.2	3752302.1	516.8	3.49	4.00	3.25
YES								
L0015848	0	0.86060E-07	471463.8	3752302.2	517.5	3.49	4.00	3.25
YES								
L0015849	0	0.86060E-07	471472.4	3752302.3	518.0	3.49	4.00	3.25
YES								
L0015850	0	0.86060E-07	471481.0	3752302.5	518.6	3.49	4.00	3.25
YES								
L0015851	0	0.86060E-07	471489.6	3752302.6	519.2	3.49	4.00	3.25
YES								
L0015852	0	0.86060E-07	471498.2	3752302.7	519.7	3.49	4.00	3.25
YES								
L0015853	0	0.86060E-07	471506.7	3752302.8	520.1	3.49	4.00	3.25
YES								
L0015854	0	0.86060E-07	471515.3	3752302.9	520.6	3.49	4.00	3.25
YES								
L0015855	0	0.86060E-07	471523.9	3752303.0	520.8	3.49	4.00	3.25
YES								
L0015856	0	0.86060E-07	471532.5	3752303.1	520.8	3.49	4.00	3.25
YES								
L0015857	0	0.86060E-07	471541.1	3752303.2	520.8	3.49	4.00	3.25
YES								
L0015858	0	0.86060E-07	471549.7	3752303.3	520.8	3.49	4.00	3.25
YES								
L0015859	0	0.86060E-07	471552.1	3752297.0	520.9	3.49	4.00	3.25
YES								
L0015860	0	0.86060E-07	471552.3	3752288.4	521.4	3.49	4.00	3.25
YES								
L0015861	0	0.86060E-07	471552.4	3752279.8	521.9	3.49	4.00	3.25
YES								
L0015862	0	0.66330E-07	471580.7	3752278.2	519.9	3.49	4.00	3.25
YES								
L0015863	0	0.66330E-07	471580.5	3752286.8	519.9	3.49	4.00	3.25
YES								
L0015864	0	0.66330E-07	471580.2	3752295.3	519.9	3.49	4.00	3.25
YES								

```
L0015865          0   0.66330E-07  471582.6 3752301.4   519.5    3.49    4.00    3.25
  YES
L0015866          0   0.66330E-07  471591.2 3752301.5   519.0    3.49    4.00    3.25
  YES
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015867	0	0.66330E-07	471599.8	3752301.5	518.5	3.49	4.00	3.25
YES								
L0015868	0	0.66330E-07	471608.4	3752301.6	518.1	3.49	4.00	3.25
YES								
L0015869	0	0.66330E-07	471617.0	3752301.6	518.2	3.49	4.00	3.25
YES								
L0015870	0	0.66330E-07	471625.6	3752301.7	518.4	3.49	4.00	3.25
YES								
L0015871	0	0.66330E-07	471634.2	3752301.7	518.7	3.49	4.00	3.25
YES								
L0015872	0	0.66330E-07	471642.8	3752301.8	519.0	3.49	4.00	3.25
YES								
L0015873	0	0.66330E-07	471651.4	3752301.8	519.5	3.49	4.00	3.25
YES								
L0015874	0	0.66330E-07	471660.0	3752301.9	520.1	3.49	4.00	3.25
YES								
L0015875	0	0.66330E-07	471668.5	3752302.0	520.6	3.49	4.00	3.25
YES								
L0015876	0	0.66330E-07	471677.1	3752302.0	520.4	3.49	4.00	3.25
YES								
L0015877	0	0.66330E-07	471685.7	3752302.1	520.1	3.49	4.00	3.25
YES								
L0015878	0	0.66330E-07	471694.3	3752302.1	519.8	3.49	4.00	3.25
YES								
L0015879	0	0.66330E-07	471702.9	3752302.2	519.5	3.49	4.00	3.25
YES								
L0015880	0	0.66330E-07	471711.5	3752302.2	519.3	3.49	4.00	3.25
YES								
L0015881	0	0.66330E-07	471720.1	3752302.3	519.1	3.49	4.00	3.25
YES								
L0015882	0	0.66330E-07	471728.7	3752302.3	518.8	3.49	4.00	3.25
YES								
L0015883	0	0.66330E-07	471737.3	3752302.4	518.8	3.49	4.00	3.25
YES								
L0015884	0	0.66330E-07	471745.9	3752302.4	518.8	3.49	4.00	3.25
YES								
L0015885	0	0.66330E-07	471754.4	3752302.5	518.8	3.49	4.00	3.25
YES								
L0015886	0	0.66330E-07	471763.0	3752302.6	518.8	3.49	4.00	3.25
YES								
L0015887	0	0.66330E-07	471771.6	3752302.6	518.9	3.49	4.00	3.25
YES								

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L0015888         0   0.66330E-07  471780.2 3752302.7   518.9    3.49     4.00     3.25
YES
L0015889         0   0.66330E-07  471784.5 3752298.4   519.0    3.49     4.00     3.25
YES
L0015890         0   0.66330E-07  471784.5 3752289.8   519.1    3.49     4.00     3.25
YES
L0015891         0   0.66330E-07  471784.5 3752281.2   519.2    3.49     4.00     3.25
YES
L0015892         0   0.86350E-07  471784.4 3752282.8   519.2    3.49     4.00     3.25
YES
L0015893         0   0.86350E-07  471784.1 3752291.3   519.1    3.49     4.00     3.25
YES
L0015894         0   0.86350E-07  471783.9 3752299.9   519.0    3.49     4.00     3.25
YES
L0015895         0   0.86350E-07  471789.0 3752303.4   519.0    3.49     4.00     3.25
YES
L0015896         0   0.86350E-07  471797.6 3752303.4   517.1    3.49     4.00     3.25
YES
L0015897         0   0.86350E-07  471806.2 3752303.4   515.1    3.49     4.00     3.25
YES
L0015898         0   0.86350E-07  471814.8 3752303.4   513.1    3.49     4.00     3.25
YES
L0015899         0   0.86350E-07  471823.4 3752303.4   512.2    3.49     4.00     3.25
YES
L0015900         0   0.86350E-07  471831.9 3752303.5   512.7    3.49     4.00     3.25
YES
L0015901         0   0.86350E-07  471840.5 3752303.5   513.2    3.49     4.00     3.25
YES
L0015902         0   0.86350E-07  471849.1 3752303.5   513.7    3.49     4.00     3.25
YES
L0015903         0   0.86350E-07  471857.7 3752303.5   514.4    3.49     4.00     3.25
YES
L0015904         0   0.86350E-07  471866.3 3752303.5   515.0    3.49     4.00     3.25
YES
L0015905         0   0.86350E-07  471874.9 3752303.6   515.6    3.49     4.00     3.25
YES
L0015906         0   0.86350E-07  471883.5 3752303.6   516.1    3.49     4.00     3.25
YES
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FF *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       16:21:25
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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                                          *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER URBAN SOURCE PART. CATS.	EMISSION RATE EMISSION RATE SCALAR VARY (GRAMS/SEC) BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

L0015907         0   0.86350E-07  471892.1 3752303.6   516.3    3.49     4.00     3.25
YES
L0015908         0   0.86350E-07  471900.7 3752303.6   516.5    3.49     4.00     3.25
YES
L0015909         0   0.86350E-07  471909.3 3752303.7   516.8    3.49     4.00     3.25
YES
L0015910         0   0.86350E-07  471917.8 3752303.7   516.7    3.49     4.00     3.25
YES
```

L0015911	0	0.86350E-07	471926.4	3752303.7	516.6	3.49	4.00	3.25
YES								
L0015912	0	0.86350E-07	471935.0	3752303.7	516.6	3.49	4.00	3.25
YES								
L0015913	0	0.86350E-07	471943.6	3752303.7	516.5	3.49	4.00	3.25
YES								
L0015914	0	0.86350E-07	471952.2	3752303.8	516.3	3.49	4.00	3.25
YES								
L0015915	0	0.86350E-07	471960.8	3752303.8	516.1	3.49	4.00	3.25
YES								
L0015916	0	0.86350E-07	471969.4	3752303.8	516.0	3.49	4.00	3.25
YES								
L0015917	0	0.86350E-07	471978.0	3752303.8	515.8	3.49	4.00	3.25
YES								
L0015918	0	0.86350E-07	471986.6	3752303.8	515.6	3.49	4.00	3.25
YES								
L0015919	0	0.86350E-07	471995.2	3752303.9	515.4	3.49	4.00	3.25
YES								
L0015920	0	0.86350E-07	472003.7	3752303.9	515.1	3.49	4.00	3.25
YES								
L0015921	0	0.86350E-07	472012.3	3752303.9	514.8	3.49	4.00	3.25
YES								
L0015922	0	0.86350E-07	472020.9	3752303.9	514.6	3.49	4.00	3.25
YES								
L0015923	0	0.86350E-07	472029.5	3752303.9	514.3	3.49	4.00	3.25
YES								
L0015924	0	0.86350E-07	472038.1	3752304.0	514.1	3.49	4.00	3.25
YES								
L0015925	0	0.86350E-07	472046.7	3752304.0	513.8	3.49	4.00	3.25
YES								
L0015926	0	0.41110E-07	471104.2	3752254.7	510.8	3.49	4.00	3.25
YES								
L0015927	0	0.41110E-07	471096.6	3752258.7	510.5	3.49	4.00	3.25
YES								
L0015928	0	0.41110E-07	471089.0	3752262.7	509.9	3.49	4.00	3.25
YES								
L0015929	0	0.41110E-07	471088.0	3752255.5	509.8	3.49	4.00	3.25
YES								
L0015930	0	0.41110E-07	471088.0	3752247.0	509.7	3.49	4.00	3.25
YES								
L0015931	0	0.41110E-07	471087.9	3752238.4	509.6	3.49	4.00	3.25
YES								
L0015932	0	0.41110E-07	471087.9	3752229.8	509.5	3.49	4.00	3.25
YES								
L0015933	0	0.41110E-07	471087.8	3752221.2	509.4	3.49	4.00	3.25
YES								
L0015934	0	0.41110E-07	471087.7	3752212.6	509.3	3.49	4.00	3.25
YES								
L0015935	0	0.41110E-07	471087.7	3752204.0	509.4	3.49	4.00	3.25
YES								
L0015936	0	0.41110E-07	471087.6	3752195.4	509.8	3.49	4.00	3.25
YES								
L0015937	0	0.41110E-07	471087.6	3752186.8	510.3	3.49	4.00	3.25
YES								
L0015938	0	0.41110E-07	471087.5	3752178.2	510.7	3.49	4.00	3.25
YES								
L0015939	0	0.41110E-07	471087.4	3752169.6	511.2	3.49	4.00	3.25
YES								
L0015940	0	0.41110E-07	471087.4	3752161.1	511.7	3.49	4.00	3.25
YES								
L0015941	0	0.41110E-07	471087.3	3752152.5	512.2	3.49	4.00	3.25
YES								
L0015942	0	0.41110E-07	471087.3	3752143.9	512.5	3.49	4.00	3.25
YES								
L0015943	0	0.41110E-07	471090.3	3752138.4	512.4	3.49	4.00	3.25
YES								

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L0015944          0   0.41110E-07  471098.9 3752138.4   512.7     3.49    4.00     3.25
  YES
L0015945          0   0.32020E-07  471044.9 3751936.4   514.5     3.49    4.00     3.25
  YES
L0015946          0   0.32020E-07  471036.3 3751936.6   513.8     3.49    4.00     3.25
  YES
```

🔲 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015947 YES	0	0.32020E-07	471027.7	3751936.8	513.2	3.49	4.00	3.25
L0015948 YES	0	0.32020E-07	471019.4	3751938.6	512.6	3.49	4.00	3.25
L0015949 YES	0	0.32020E-07	471016.0	3751943.4	512.4	3.49	4.00	3.25
L0015950 YES	0	0.32020E-07	471019.2	3751951.3	512.5	3.49	4.00	3.25
L0015951 YES	0	0.32020E-07	471022.5	3751959.3	512.5	3.49	4.00	3.25
L0015952 YES	0	0.32020E-07	471025.8	3751967.2	512.6	3.49	4.00	3.25
L0015953 YES	0	0.32020E-07	471029.0	3751975.1	512.9	3.49	4.00	3.25
L0015954 YES	0	0.32020E-07	471032.3	3751983.1	513.3	3.49	4.00	3.25
L0015955 YES	0	0.32020E-07	471035.5	3751991.0	513.7	3.49	4.00	3.25
L0015956 YES	0	0.32020E-07	471038.8	3751999.0	514.0	3.49	4.00	3.25
L0015957 YES	0	0.32020E-07	471042.1	3752006.9	514.5	3.49	4.00	3.25
L0015958 YES	0	0.32020E-07	471045.3	3752014.9	514.9	3.49	4.00	3.25
L0015959 YES	0	0.32020E-07	471048.6	3752022.8	515.2	3.49	4.00	3.25
L0015960 YES	0	0.32020E-07	471052.6	3752028.9	515.4	3.49	4.00	3.25
L0015961 YES	0	0.32020E-07	471060.5	3752025.5	515.7	3.49	4.00	3.25
L0015962 YES	0	0.52760E-07	471043.8	3751831.5	512.4	3.49	4.00	3.25
L0015963 YES	0	0.52760E-07	471035.2	3751831.5	512.9	3.49	4.00	3.25
L0015964 YES	0	0.52760E-07	471029.0	3751829.2	513.7	3.49	4.00	3.25
L0015965 YES	0	0.52760E-07	471029.0	3751820.6	514.2	3.49	4.00	3.25
L0015966 YES	0	0.52760E-07	471029.1	3751812.0	514.4	3.49	4.00	3.25

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L0015967          0   0.52760E-07  471029.1 3751803.4    514.5     3.49    4.00     3.25
YES
L0015968          0   0.52760E-07  471029.1 3751794.8    514.6     3.49    4.00     3.25
YES
L0015969          0   0.52760E-07  471029.2 3751786.2    514.7     3.49    4.00     3.25
YES
L0015970          0   0.52760E-07  471029.2 3751777.6    515.1     3.49    4.00     3.25
YES
L0015971          0   0.52760E-07  471029.3 3751769.0    515.5     3.49    4.00     3.25
YES
L0015972          0   0.52760E-07  471029.3 3751760.4    515.8     3.49    4.00     3.25
YES
L0015973          0   0.52760E-07  471029.4 3751751.9    516.3     3.49    4.00     3.25
YES
L0015974          0   0.52760E-07  471029.4 3751743.3    516.7     3.49    4.00     3.25
YES
L0015975          0   0.52760E-07  471029.4 3751734.7    517.2     3.49    4.00     3.25
YES
L0015976          0   0.52760E-07  471029.5 3751726.1    517.7     3.49    4.00     3.25
YES
L0015977          0   0.52760E-07  471037.6 3751725.6    518.0     3.49    4.00     3.25
YES
L0015978          0   0.52760E-07  471046.2 3751725.6    518.3     3.49    4.00     3.25
YES
L0015979          0   0.40230E-07  471041.7 3751685.4    520.3     3.49    4.00     3.25
YES
L0015980          0   0.40230E-07  471033.1 3751685.9    519.9     3.49    4.00     3.25
YES
L0015981          0   0.40230E-07  471028.5 3751682.3    520.1     3.49    4.00     3.25
YES
L0015982          0   0.40230E-07  471028.5 3751673.7    520.7     3.49    4.00     3.25
YES
L0015983          0   0.40230E-07  471028.5 3751665.2    521.3     3.49    4.00     3.25
YES
L0015984          0   0.40230E-07  471028.6 3751656.6    521.5     3.49    4.00     3.25
YES
L0015985          0   0.40230E-07  471028.6 3751648.0    521.7     3.49    4.00     3.25
YES
L0015986          0   0.40230E-07  471028.7 3751639.4    521.9     3.49    4.00     3.25
YES
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** VOLUME SOURCE DATA ***

SOURCE ID (METERS)	NUMBER URBAN PART. SOURCE SCALAR CATS.	EMISSION RATE EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ
L0015987 YES	0	0.40230E-07	471028.7	3751630.8	521.7	3.49	4.00	3.25
L0015988 YES	0	0.40230E-07	471028.8	3751622.2	521.4	3.49	4.00	3.25
L0015989 YES	0	0.40230E-07	471028.8	3751613.6	521.2	3.49	4.00	3.25

L0015990	0	0.40230E-07	471028.9	3751605.0	521.0	3.49	4.00	3.25
YES								
L0015991	0	0.40230E-07	471028.9	3751596.4	521.2	3.49	4.00	3.25
YES								
L0015992	0	0.40230E-07	471029.4	3751588.3	521.4	3.49	4.00	3.25
YES								
L0015993	0	0.40230E-07	471038.0	3751588.1	521.9	3.49	4.00	3.25
YES								
L0015994	0	0.40230E-07	471046.6	3751587.9	522.5	3.49	4.00	3.25
YES								
L0015995	0	0.44480E-07	471143.1	3751335.8	523.4	3.49	4.00	3.25
YES								
L0015996	0	0.44480E-07	471143.1	3751344.4	523.6	3.49	4.00	3.25
YES								
L0015997	0	0.44480E-07	471143.1	3751353.0	523.7	3.49	4.00	3.25
YES								
L0015998	0	0.44480E-07	471143.2	3751361.6	523.8	3.49	4.00	3.25
YES								
L0015999	0	0.44480E-07	471143.2	3751370.2	523.9	3.49	4.00	3.25
YES								
L0016000	0	0.44480E-07	471143.2	3751378.7	523.7	3.49	4.00	3.25
YES								
L0016001	0	0.44480E-07	471143.2	3751387.3	523.6	3.49	4.00	3.25
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YES HRDOW								
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YES HRDOW								
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                            *** VOLUME SOURCE DATA ***

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               NUMBER EMISSION RATE                      BASE     RELEASE     INIT.    INIT.
               URBAN  EMISSION RATE
   SOURCE      PART.  (GRAMS/SEC)    X         Y       ELEV.    HEIGHT      SY       SZ
   SOURCE   SCALAR VARY
     ID       CATS.                (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)                  BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -

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   YES   HRDOW
VOL15               0   0.20192E-04  472066.1 3752185.5   521.2     5.00    12.84    1.40
   YES   HRDOW
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   YES   HRDOW
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   YES   HRDOW
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   YES   HRDOW
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   YES   HRDOW
VOL23               0   0.20192E-04  471390.6 3752207.6   522.6     5.00    12.84    1.40
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   YES   HRDOW
VOL26               0   0.20192E-04  471558.8 3752211.0   525.1     5.00    12.84    1.40
   YES   HRDOW
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   YES   HRDOW
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   YES   HRDOW
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   YES   HRDOW
VOL30               0   0.20192E-04  471277.6 3751951.8   522.1     5.00    12.84    1.40
   YES   HRDOW
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   YES   HRDOW
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  YES    HRDOW
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  YES    HRDOW
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  YES    HRDOW
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  YES    HRDOW
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  YES    HRDOW
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  YES    HRDOW
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🅿🅿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** VOLUME SOURCE DATA ***

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            NUMBER EMISSION RATE                 BASE   RELEASE   INIT.    INIT.
            URBAN  EMISSION RATE
  SOURCE    PART.  (GRAMS/SEC)    X        Y     ELEV.  HEIGHT    SY       SZ
  SOURCE  SCALAR VARY
    ID      CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
   (METERS)            BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - -


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 YES    HRDOW
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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                              *** SOURCE IDs DEFINING SOURCE GROUPS ***


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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                 PAGE 62
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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                                           *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                   *** SOURCE IDs DEFINING SOURCE GROUPS ***

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▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC   ELEV   URBAN   ADJ_U*

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                 *** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                    *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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███ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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              PAGE   80
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP   SOURCE IDs
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Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                   *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***

 URBAN ID   URBAN POP                                    SOURCE IDs
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                          *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN ADJ_U*

                         *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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  URBAN ID   URBAN POP                          SOURCE IDs
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Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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        L0015379    , L0015380    , L0015381    , L0015382    , L0015383    , L0015384    ,
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
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        L0015401    , L0015402    ,

        L0015403    , L0015404    , L0015405    , L0015406    , L0015407    , L0015408    ,
        L0015409    , L0015410    ,

        L0015411    , L0015412    , L0015413    , L0015414    , L0015415    , L0015416    ,
        L0015417    , L0015418    ,

        L0015419    , L0015420    , L0015421    , L0015422    , L0015423    , L0015424    ,
        L0015425    , L0015426    ,

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        L0015433    , L0015434    ,

        L0015435    , L0015436    , L0015437    , L0015438    , L0015439    , L0015440    ,
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        L0015443    , L0015444    , L0015445    , L0015446    , L0015447    , L0015448    ,
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        L0015467   , L0015468   , L0015469   , L0015470   , L0015471   , L0015472   ,
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        L0015475   , L0015476   , L0015477   , L0015478   , L0015479   , L0015480   ,
        L0015481   , L0015482   ,

        L0015483   , L0015484   , L0015485   , L0015486   , L0015487   , L0015488   ,
        L0015489   , L0015490   ,

        L0015491   , L0015492   , L0015493   , L0015494   , L0015495   , L0015496   ,
        L0015497   , L0015498   ,

        L0015499   , L0015500   , L0015501   , L0015502   , L0015503   , L0015504   ,
        L0015505   , L0015506   ,

        L0015507   , L0015508   , L0015509   , L0015510   , L0015511   , L0015512   ,
        L0015513   , L0015514   ,

        L0015515   , L0015516   , L0015517   , L0015518   , L0015519   , L0015520   ,
        L0015521   , L0015522   ,

        L0015523   , L0015524   , L0015525   , L0015526   , L0015527   , L0015528   ,
        L0015529   , L0015530   ,

        L0015531   , L0015532   , L0015533   , L0015534   , L0015535   , L0015536   ,
        L0015537   , L0015538   ,

        L0015539   , L0015540   , L0015541   , L0015542   , L0015543   , L0015544   ,
        L0015545   , L0015546   ,
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------


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        L0015569   , L0015570   ,

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        L0015577   , L0015578   ,

        L0015579   , L0015580   , L0015581   , L0015582   , L0015583   , L0015584   ,
        L0015585   , L0015586   ,

        L0015587   , L0015588   , L0015589   , L0015590   , L0015591   , L0015592   ,
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L0015617    , L0015618    ,

L0015619    , L0015620    , L0015621    , L0015622    , L0015623    , L0015624    ,
L0015625    , L0015626    ,

L0015627    , L0015628    , L0015629    , L0015630    , L0015631    , L0015632    ,
L0015633    , L0015634    ,

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L0015641    , L0015642    ,

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L0015673    , L0015674    ,

L0015675    , L0015676    , L0015677    , L0015678    , L0015679    , L0015680    ,
L0015681    , L0015682    ,

L0015683    , L0015684    , L0015685    , L0015686    , L0015687    , L0015688    ,
L0015689    , L0015690    ,

L0015691    , L0015692    , L0015693    , L0015694    , L0015695    , L0015696    ,
L0015697    , L0015698    ,

L0015699    , L0015700    , L0015701    , L0015702    , L0015703    , L0015704    ,
L0015705    , L0015706    ,
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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID   URBAN POP                              SOURCE IDs
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L0015707    , L0015708    , L0015709    , L0015710    , L0015711    , L0015712    ,
L0015713    , L0015714    ,

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L0015721    , L0015722    ,

L0015723    , L0015724    , L0015725    , L0015726    , L0015727    , L0015728    ,
L0015729    , L0015730    ,

L0015731    , L0015732    , L0015733    , L0015734    , L0015735    , L0015736    ,
L0015737    , L0015738    ,
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        L0015745    , L0015746    ,

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        L0015753    , L0015754    ,

        L0015755    , L0015756    , L0015757    , L0015758    , L0015759    , L0015760    ,
        L0015761    , L0015762    ,

        L0015763    , L0015764    , L0015765    , L0015766    , L0015767    , L0015768    ,
        L0015769    , L0015770    ,

        L0015771    , L0015772    , L0015773    , L0015774    , L0015775    , L0015776    ,
        L0015777    , L0015778    ,

        L0015779    , L0015780    , L0015781    , L0015782    , L0015783    , L0015784    ,
        L0015785    , L0015786    ,

        L0015787    , L0015788    , L0015789    , L0015790    , L0015791    , L0015792    ,
        L0015793    , L0015794    ,

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        L0015801    , L0015802    ,

        L0015803    , L0015804    , L0015805    , L0015806    , L0015807    , L0015808    ,
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        L0015825    , L0015826    ,

        L0015827    , L0015828    , L0015829    , L0015830    , L0015831    , L0015832    ,
        L0015833    , L0015834    ,

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        L0015843    , L0015844    , L0015845    , L0015846    , L0015847    , L0015848    ,
        L0015849    , L0015850    ,

        L0015851    , L0015852    , L0015853    , L0015854    , L0015855    , L0015856    ,
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 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

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     L0015899   , L0015900    , L0015901   , L0015902   , L0015903   , L0015904   ,
     L0015905   , L0015906    ,

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     L0015913   , L0015914    ,

     L0015915   , L0015916    , L0015917   , L0015918   , L0015919   , L0015920   ,
     L0015921   , L0015922    ,

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     L0015929   , L0015930    ,

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     L0015937   , L0015938    ,

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     L0015945   , L0015946    ,

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     L0015961   , L0015962    ,

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     L0015971   , L0015972    , L0015973   , L0015974   , L0015975   , L0015976   ,
     L0015977   , L0015978    ,

     L0015979   , L0015980    , L0015981   , L0015982   , L0015983   , L0015984   ,
     L0015985   , L0015986    ,

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     L0015993   , L0015994    ,

     L0015995   , L0015996    , L0015997   , L0015998   , L0015999   , L0016000   ,
     L0016001   , L0016002    ,

     L0016003   , L0016004    , L0016005   , L0016006   , L0016007   , L0016008   ,
     L0016009   , L0016010    ,

     L0016011   , L0016012    , L0016013   , L0016014   , VOL1       , VOL2       ,
     VOL3       , VOL4        ,

     VOL5       , VOL6        , VOL7       , VOL8       , VOL9       , VOL10      ,
     VOL11      , VOL12       ,
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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** SOURCE IDs DEFINED AS URBAN SOURCES ***

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 URBAN ID    URBAN POP                                            SOURCE IDs
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         VOL13         , VOL14         , VOL15         , VOL16         , VOL17         , VOL18         ,
         VOL19         , VOL20         ,

         VOL21         , VOL22         , VOL23         , VOL24         , VOL25         , VOL26         ,
         VOL27         , VOL28         ,

         VOL29         , VOL30         , VOL31         , VOL32         , VOL33         , VOL34         ,
         VOL35         , VOL36         ,

         VOL37         , VOL38         , VOL39         , VOL40         , VOL41         , VOL42         ,
         VOL43         , VOL44         ,

         VOL45         , VOL46         , VOL47         , VOL48         , VOL49         , VOL50         ,
         VOL51         , VOL52         ,

         VOL53         , VOL54         , VOL55         , VOL56         , VOL57         , VOL58         ,
         VOL59         , VOL60         ,

         VOL61         , VOL62         , VOL63         , VOL64         , VOL65         , VOL66         ,
         VOL67         , VOL68         ,

         VOL69         , VOL70         , VOL71         , VOL72         , VOL73         , VOL74         ,
         VOL75         , VOL76         ,

         VOL77         , STCK1         , STCK2         , STCK3         , STCK4         , STCK5         ,
         STCK6         , STCK7         ,

         STCK8         , STCK9         , STCK10        , VOL78         , STCK11        , STCK12        ,
         STCK13        , STCK14        ,

         STCK15        , STCK16        , STCK17        , STCK18        , STCK19        ,
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Campus\14064 Ops\140 ***   11/01/23
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

              * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL1   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL2   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
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▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL3        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL4   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                 DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL5   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
```

```
 - - - - - - - - - - - - - - - - - -
                                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

                        PAGE 96
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL6   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR

```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL7   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▉▉ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

                    PAGE   98
 *** MODELOPTs: RegDFAULT CONC ELEV   URBAN   ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL8   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                           DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
       .0000E+00   23  .0000E+00   24  .0000E+00
```
🖿 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

                    PAGE 99
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL9   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

🖿 *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL10   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 101
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = VOL11        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 102
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

```
SOURCE ID = VOL12        ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                    PAGE 103
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL13        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL14        ; SOURCE TYPE = VOLUME   :
```

```
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL15   ; SOURCE TYPE = VOLUME   :
```
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                 DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL16   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL17   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = VOL18        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
 SOURCE ID = VOL19        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


```
 SOURCE ID = VOL20        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                       DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


```
 SOURCE ID = VOL21        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
  SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL22   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -

```
                                 DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                 DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK

(HRDOW) *

 SOURCE ID = VOL23   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***   11/01/23
  *** AERMET - VERSION 16216 ***
   ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL24   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                       DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                       DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL25   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
 ▨▨ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL26   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                   DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL27   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL28   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL29   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW) *

 SOURCE ID = VOL30   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR

                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL31   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL32        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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```
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL33        ; SOURCE TYPE = VOLUME    :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .00D00E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
```

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  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 124
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL34      ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

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                    PAGE 125
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL35      ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
          .0000E+00    15  .0000E+00     16  .0000E+00
      17  .0000E+00    18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
      .0000E+00    23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SUNDAY
       1  .0000E+00     2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
      .0000E+00     7  .0000E+00      8  .0000E+00
       9  .0000E+00    10  .1000E+01     11  .1000E+01     12  .1000E+01     13  .1000E+01     14
      .0000E+00    15  .0000E+00     16  .0000E+00
      17  .0000E+00    18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
      .0000E+00    23  .0000E+00     24  .0000E+00
```

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                     PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL36       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
       1  .0000E+00     2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
      .0000E+00     7  .0000E+00      8  .0000E+00
       9  .0000E+00    10  .1000E+01     11  .1000E+01     12  .1000E+01     13  .1000E+01     14
      .0000E+00    15  .0000E+00     16  .0000E+00
      17  .0000E+00    18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
      .0000E+00    23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SATURDAY
       1  .0000E+00     2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
      .0000E+00     7  .0000E+00      8  .0000E+00
       9  .0000E+00    10  .1000E+01     11  .1000E+01     12  .1000E+01     13  .1000E+01     14
      .0000E+00    15  .0000E+00     16  .0000E+00
      17  .0000E+00    18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
      .0000E+00    23  .0000E+00     24  .0000E+00
                                        DAY OF WEEK = SUNDAY
       1  .0000E+00     2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
      .0000E+00     7  .0000E+00      8  .0000E+00
       9  .0000E+00    10  .1000E+01     11  .1000E+01     12  .1000E+01     13  .1000E+01     14
      .0000E+00    15  .0000E+00     16  .0000E+00
      17  .0000E+00    18  .0000E+00     19  .0000E+00     20  .0000E+00     21  .0000E+00     22
      .0000E+00    23  .0000E+00     24  .0000E+00
```

```
                     PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL37       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
       1  .0000E+00     2  .0000E+00      3  .0000E+00      4  .0000E+00      5  .0000E+00      6
      .0000E+00     7  .0000E+00      8  .0000E+00
```

```
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```

⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL38       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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⊞ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
SOURCE ID = VOL39       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
🏳️ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                           ***         16:21:25


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

SOURCE ID = VOL40       ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
🏳️ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***         11/01/23
 *** AERMET - VERSION  16216 ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL41   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

SOURCE ID = VOL42   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL43   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL44   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
     .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
     .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
     .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY

```
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL45        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
    1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
  .0000E+00     7  .0000E+00     8  .0000E+00
    9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
  .0000E+00    15  .0000E+00    16  .0000E+00
   17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
  .0000E+00    23  .0000E+00    24  .0000E+00
```

▟▙ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *


 SOURCE ID = VOL46        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR    HOUR   SCALAR    HOUR   SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
   SCALAR    HOUR    SCALAR    HOUR    SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
```

                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

⌧⌧ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL47   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

⌧⌧ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL48        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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🔲🔲 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                      * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                        (HRDOW) *

 SOURCE ID = VOL49        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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 ▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL50   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

 ▣ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL51   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
```
🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                        PAGE 142
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *

 SOURCE ID = VOL52   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
    .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
    .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
    .0000E+00   23 .0000E+00   24 .0000E+00
```
🔳 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***       16:21:25


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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW) *


 SOURCE ID = VOL53        ; SOURCE TYPE = VOLUME   :
  HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR    SCALAR   HOUR
  SCALAR   HOUR    SCALAR   HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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🇫🇫 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL54        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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🇫🇫 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL55        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
```

```
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL56        ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
                                    DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL57   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

SOURCE ID = VOL58   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                             DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14

```
                 .0000E+00   15  .0000E+00   16  .0000E+00
    17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL59   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL60   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00

```
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL61   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL62   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6

```
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL63   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
                                DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
    .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
    .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
    .0000E+00   23  .0000E+00   24  .0000E+00
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[FF] *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

```
 SOURCE ID = VOL64       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 ▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      11/01/23
  *** AERMET - VERSION  16216 ***
  ***                                                              ***        16:21:25

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

               * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
               (HRDOW) *

 SOURCE ID = VOL65       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
 ▓▓ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      11/01/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL66        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
 FF *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
 Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                                  ***        16:21:25

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *


 SOURCE ID = VOL67        ; SOURCE TYPE = VOLUME    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                             DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                             DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL68   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                      DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

SOURCE ID = VOL69   ; SOURCE TYPE = VOLUME   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                      DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

```
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL70   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *

 SOURCE ID = VOL71   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -

```
 - - - - - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

 SOURCE ID = VOL72   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
```
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 - - - - - - - - - - - - - - - -
                                           DAY OF WEEK = WEEKDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SATURDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
                                           DAY OF WEEK = SUNDAY
   1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
   .0000E+00     7  .0000E+00     8  .0000E+00
   9  .0000E+00    10  .1000E+01    11  .1000E+01    12  .1000E+01    13  .1000E+01    14
   .0000E+00    15  .0000E+00    16  .0000E+00
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL73   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
▉▉ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW) *

 SOURCE ID = VOL74   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

```
     .0000E+00   23  .0000E+00   24  .0000E+00
🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***        16:21:25


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 *** MODELOPTs:   RegDFAULT  CONC  ELEV   URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL75       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
🔲 *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/01/23
 *** AERMET - VERSION  16216 ***
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 *** MODELOPTs:   RegDFAULT  CONC  ELEV   URBAN  ADJ_U*


                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW) *


 SOURCE ID = VOL76       ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -
                                        DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
```

```
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL77        ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                   DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW) *

```
SOURCE ID = VOL78        ; SOURCE TYPE = VOLUME   :
 HOUR  SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                   DAY OF WEEK = WEEKDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
```

```
      .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                  DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
***   ***   16:21:25

                  PAGE 169
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

SOURCE ID = STCK1   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                  DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                  DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
```

```
17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SATURDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = SUNDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
```

▓▓ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

```
SOURCE ID = STCK2       ; SOURCE TYPE = POINT    :
 HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR    SCALAR    HOUR
 SCALAR    HOUR    SCALAR    HOUR    SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = MONDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = TUESDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .1000E+01    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = WEDNESDY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = THURSDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
 .0000E+00    23  .0000E+00    24  .0000E+00
                                         DAY OF WEEK = FRIDAY
  1  .0000E+00     2  .0000E+00     3  .0000E+00     4  .0000E+00     5  .0000E+00     6
 .0000E+00     7  .0000E+00     8  .0000E+00
  9  .0000E+00    10  .0000E+00    11  .0000E+00    12  .0000E+00    13  .0000E+00    14
 .0000E+00    15  .0000E+00    16  .0000E+00
 17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
```

```
     .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                         DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK3   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
 - - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
```

  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00

■■ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
  ***                                                                ***        16:21:25


                  PAGE 172
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *

 SOURCE ID = STCK4       ; SOURCE TYPE = POINT    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
```

🚩 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 173

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *

 SOURCE ID = STCK5   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - - -

```
                                        DAY OF WEEK = MONDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
```

```
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

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                      PAGE 174
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK6         ; SOURCE TYPE = POINT    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
      .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
      .0000E+00    7  .0000E+00    8  .0000E+00
```

```
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

██ *** AERMOD - VERSION 22112   ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

SOURCE ID = STCK7   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                      DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
                                      DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
```

```
     .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

SOURCE ID = STCK8   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -

```
                                    DAY OF WEEK = MONDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = TUESDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = WEDNESDY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = THURSDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = FRIDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SATURDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
```

```
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
                                    DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
 .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
 .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
 .0000E+00   23  .0000E+00   24  .0000E+00
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
*** AERMET - VERSION 16216 ***
***   ***   16:21:25

                    PAGE 177
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                (HRDOW7) *

SOURCE ID = STCK9   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                    DAY OF WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = WEDNESDY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = THURSDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = FRIDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
 .0000E+00   23 .0000E+00   24 .0000E+00
                                    DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
 .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
 .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
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```
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SUNDAY
   1   .0000E+00    2   .0000E+00    3   .0000E+00    4   .0000E+00    5   .0000E+00    6
   .0000E+00    7   .0000E+00    8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
```
🖿 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 178
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *

SOURCE ID = STCK10   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = TUESDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .1000E+01   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = WEDNESDY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = THURSDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = FRIDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
                                        DAY OF WEEK = SATURDAY
   1   .0000E+00   2   .0000E+00   3   .0000E+00   4   .0000E+00   5   .0000E+00   6
   .0000E+00   7   .0000E+00   8   .0000E+00
   9   .0000E+00   10   .0000E+00   11   .0000E+00   12   .0000E+00   13   .0000E+00   14
   .0000E+00   15   .0000E+00   16   .0000E+00
  17   .0000E+00   18   .0000E+00   19   .0000E+00   20   .0000E+00   21   .0000E+00   22
   .0000E+00   23   .0000E+00   24   .0000E+00
```

```
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
 17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
```
■■ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***        11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                              ***          16:21:25


                 PAGE 179
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                   (HRDOW7) *


 SOURCE ID = STCK11      ; SOURCE TYPE = POINT    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                        DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
```

```
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
   .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
```

🅵🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                   PAGE 180
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW7) *

SOURCE ID = STCK12   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
```

```
         .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                    PAGE 181
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

 SOURCE ID = STCK13   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
```
                                        DAY OF WEEK = MONDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = TUESDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = WEDNESDY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = THURSDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = FRIDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SATURDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
     .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
     .0000E+00   23  .0000E+00   24  .0000E+00
                                        DAY OF WEEK = SUNDAY
   1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
     .0000E+00    7  .0000E+00    8  .0000E+00
```

```
   9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
   .0000E+00   15  .0000E+00   16  .0000E+00
  17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
   .0000E+00   23  .0000E+00   24  .0000E+00
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                      PAGE 182
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                 * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                 (HRDOW7) *

SOURCE ID = STCK14   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
 SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                         DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                         DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14

```
      .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
      .0000E+00   23  .0000E+00   24  .0000E+00
```

▮▮ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 183

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

SOURCE ID = STCK15   ; SOURCE TYPE = POINT   :
 HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
      .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
      .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
      .0000E+00   15 .0000E+00   16 .0000E+00
```

```
  17  .0000E+00    18  .0000E+00    19  .0000E+00    20  .0000E+00    21  .0000E+00    22
   .0000E+00    23  .0000E+00    24  .0000E+00
```

■■ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
  ***   ***   16:21:25

                    PAGE 184
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK16   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = FRIDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
  1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
  9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22

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    .0000E+00   23  .0000E+00   24  .0000E+00
▘▘ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***      11/01/23
 *** AERMET - VERSION  16216 ***
  ***                                                              ***        16:21:25

                    PAGE 185
 *** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                  (HRDOW7) *

 SOURCE ID = STCK17     ; SOURCE TYPE = POINT    :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = TUESDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .1000E+01   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
  1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6
  .0000E+00    7  .0000E+00    8  .0000E+00
  9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14
  .0000E+00   15  .0000E+00   16  .0000E+00
 17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22
  .0000E+00   23  .0000E+00   24  .0000E+00
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◪◪ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                      PAGE 186
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW7) *

 SOURCE ID = STCK18   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
   SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                          DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
   .000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
   .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
   .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK
                    (HRDOW7) *

 SOURCE ID = STCK19   ; SOURCE TYPE = POINT   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR
  SCALAR   HOUR   SCALAR   HOUR   SCALAR
- -
- - - - - - - - - - - - - - - -
                                            DAY OF WEEK = MONDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = TUESDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .1000E+01   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = WEDNESDY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = THURSDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = FRIDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00
                                            DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6
  .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14
  .0000E+00   15 .0000E+00   16 .0000E+00
  17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22
  .0000E+00   23 .0000E+00   24 .0000E+00

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*** AERMET - VERSION  16216 ***
***                                                              ***        16:21:25

                    PAGE 188
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
                               *** DISCRETE CARTESIAN RECEPTORS ***
                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                            (METERS)


  ( 472283.7, 3752641.0,    492.6,     492.6,       0.0);        ( 472482.2, 3752398.0,
  499.3,      499.3,        0.0);
  ( 472478.0, 3752183.1,    505.1,     505.1,       0.0);        ( 472148.1, 3752531.5,
  495.2,      502.0,        0.0);
  ( 472052.1, 3752531.2,    499.4,     512.0,       0.0);        ( 471975.5, 3752531.2,
  500.5,      514.0,        0.0);
  ( 471896.1, 3752530.9,    503.4,     513.0,       0.0);        ( 471840.8, 3752529.9,
  503.4,      513.0,        0.0);
  ( 471816.6, 3752527.1,    500.6,     513.0,       0.0);        ( 471736.8, 3752557.9,
  501.5,      501.5,        0.0);
  ( 471696.6, 3752558.9,    500.0,     500.0,       0.0);        ( 471627.3, 3752556.2,
  501.9,      512.0,        0.0);
  ( 471584.6, 3752556.8,    504.5,     507.0,       0.0);        ( 471560.0, 3752556.2,
  504.6,      507.0,        0.0);
  ( 471534.3, 3752554.9,    503.2,     509.0,       0.0);        ( 471514.9, 3752554.9,
  502.2,      519.0,        0.0);
  ( 471486.8, 3752555.7,    503.1,     503.1,       0.0);        ( 471465.7, 3752555.4,
  503.1,      503.1,        0.0);
  ( 471442.2, 3752555.0,    501.3,     505.0,       0.0);        ( 471419.7, 3752552.5,
  500.3,      505.0,        0.0);
  ( 471394.2, 3752552.9,    501.4,     501.4,       0.0);        ( 471363.4, 3752552.5,
  503.5,      503.5,        0.0);
  ( 471332.7, 3752553.3,    505.8,     505.8,       0.0);        ( 471307.6, 3752552.9,
  506.9,      506.9,        0.0);
  ( 471284.0, 3752552.7,    506.2,     506.2,       0.0);        ( 471262.0, 3752552.7,
  505.7,      505.7,        0.0);
  ( 471241.9, 3752552.7,    505.6,     505.6,       0.0);        ( 471223.1, 3752552.9,
  505.9,      505.9,        0.0);
  ( 471205.9, 3752552.9,    506.2,     506.2,       0.0);        ( 471173.2, 3752552.4,
  506.5,      506.5,        0.0);
  ( 471135.7, 3752552.5,    506.1,     506.1,       0.0);        ( 471093.2, 3752551.5,
  505.4,      505.4,        0.0);
  ( 471059.4, 3752551.7,    504.7,     504.7,       0.0);        ( 471020.5, 3752551.2,
  503.1,      503.1,        0.0);
  ( 470981.0, 3752563.6,    502.1,     502.1,       0.0);        ( 470980.4, 3752552.2,
  502.5,      502.5,        0.0);
  ( 470980.1, 3752535.6,    503.0,     503.0,       0.0);        ( 470979.9, 3752517.2,
  503.7,      503.7,        0.0);
  ( 470980.1, 3752499.8,    504.0,     504.0,       0.0);        ( 470980.2, 3752479.8,
  504.0,      504.0,        0.0);
  ( 470980.4, 3752459.4,    504.6,     504.6,       0.0);        ( 470980.2, 3752433.2,
  505.4,      505.4,        0.0);
  ( 470980.1, 3752404.0,    506.0,     506.0,       0.0);        ( 470927.1, 3752402.7,
  504.9,      504.9,        0.0);
  ( 470907.9, 3752402.7,    503.1,     503.1,       0.0);        ( 470887.3, 3752402.7,
  500.9,      505.0,        0.0);
  ( 470869.7, 3752402.0,    500.7,     500.7,       0.0);        ( 470849.6, 3752401.9,
  500.3,      500.3,        0.0);
  ( 470829.4, 3752402.2,    500.0,     500.0,       0.0);        ( 470811.6, 3752402.2,
  499.7,      499.7,        0.0);
  ( 470791.5, 3752402.5,    499.2,     499.2,       0.0);        ( 470773.6, 3752401.9,
  498.6,      498.6,        0.0);
  ( 470749.2, 3752402.2,    497.8,     497.8,       0.0);        ( 470727.7, 3752391.7,
  497.8,      497.8,        0.0);
  ( 470733.0, 3752339.0,    499.9,     499.9,       0.0);        ( 470733.7, 3752320.5,
  500.2,      500.2,        0.0);
```

```
( 470734.2, 3752291.0,      500.8,      500.8,      0.0);          ( 470733.2, 3752265.8,
500.8,      500.8,      0.0);
( 470732.9, 3752218.8,      501.2,      501.2,      0.0);          ( 470732.5, 3752182.1,
501.8,      501.8,      0.0);
( 470732.4, 3752145.3,      503.0,      503.0,      0.0);          ( 470692.4, 3752144.8,
502.5,      502.5,      0.0);
( 470670.1, 3752144.5,      502.1,      502.1,      0.0);          ( 470651.7, 3752144.3,
502.0,      502.0,      0.0);
( 470633.5, 3752144.1,      501.5,      501.5,      0.0);          ( 470615.5, 3752144.0,
500.9,      500.9,      0.0);
( 470596.0, 3752143.3,      500.2,      500.2,      0.0);          ( 470577.0, 3752143.5,
500.0,      500.0,      0.0);
( 470553.6, 3752143.5,      499.7,      499.7,      0.0);          ( 470528.6, 3752142.6,
498.8,      498.8,      0.0);
( 470508.0, 3752142.8,      497.6,      497.6,      0.0);          ( 470485.6, 3752142.5,
496.3,      496.3,      0.0);
( 470471.6, 3752131.6,      496.1,      496.1,      0.0);          ( 470471.6, 3752109.2,
497.3,      497.3,      0.0);
( 470471.3, 3752085.2,      498.1,      498.1,      0.0);          ( 470471.5, 3752037.7,
499.7,      499.7,      0.0);
( 470471.7, 3752013.0,      500.0,      500.0,      0.0);          ( 470470.9, 3751987.2,
500.1,      500.1,      0.0);
( 470470.9, 3751965.7,      500.1,      500.1,      0.0);          ( 470470.8, 3751944.4,
500.1,      500.1,      0.0);
( 470470.6, 3751924.3,      499.6,      499.6,      0.0);          ( 470470.5, 3751905.9,
499.0,      499.0,      0.0);
( 470470.9, 3751884.1,      499.1,      499.1,      0.0);          ( 470470.6, 3751864.0,
498.6,      498.6,      0.0);
( 470470.3, 3751844.0,      497.9,      497.9,      0.0);          ( 470470.2, 3751824.5,
496.6,      496.6,      0.0);
( 470470.3, 3751805.8,      495.7,      499.0,      0.0);          ( 470470.3, 3751788.0,
495.1,      502.0,      0.0);
( 470470.3, 3751761.2,      497.6,      497.6,      0.0);          ( 470471.0, 3751741.9,
499.5,      499.5,      0.0);
```

                          *** DISCRETE CARTESIAN RECEPTORS ***
                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                        (METERS)

```
( 470470.0, 3751722.8,      501.4,      501.4,      0.0);          ( 470470.2, 3751703.4,
503.3,      503.3,      0.0);
( 470470.2, 3751683.8,      504.9,      504.9,      0.0);          ( 470470.3, 3751664.3,
506.2,      506.2,      0.0);
( 470470.3, 3751642.4,      507.6,      507.6,      0.0);          ( 470470.5, 3751621.8,
508.5,      508.5,      0.0);
( 470470.2, 3751599.8,      509.0,      509.0,      0.0);          ( 470470.6, 3751578.8,
509.1,      509.1,      0.0);
( 470469.6, 3751555.9,      507.6,      507.6,      0.0);          ( 470470.0, 3751512.5,
504.8,      512.0,      0.0);
( 470468.6, 3751414.6,      501.8,      513.0,      0.0);          ( 470469.8, 3751385.2,
507.1,      513.0,      0.0);
( 470468.6, 3751358.9,      509.6,      509.6,      0.0);          ( 470462.9, 3751325.6,
511.9,      511.9,      0.0);
( 470462.0, 3751310.6,      512.6,      512.6,      0.0);          ( 470462.6, 3751296.6,
512.4,      512.4,      0.0);
( 470462.6, 3751283.3,      512.0,      512.0,      0.0);          ( 470462.6, 3751269.9,
511.1,      511.1,      0.0);
( 470462.9, 3751254.3,      509.6,      512.0,      0.0);          ( 470462.0, 3751240.7,
508.9,      508.9,      0.0);
```

```
( 472269.7, 3751349.1,      520.9,      536.0,       0.0);          ( 472290.4, 3751350.3,
520.7,      535.0,       0.0);
( 472313.6, 3751350.5,      520.9,      532.0,       0.0);          ( 472333.8, 3751351.3,
520.6,      532.0,       0.0);
```

🅿🅵 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                    PAGE 190
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                   (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

```
( 472354.8, 3751351.3,      518.5,      532.0,       0.0);          ( 472377.7, 3751351.1,
516.0,      532.0,       0.0);
( 472401.7, 3751351.1,      513.6,      533.0,       0.0);          ( 472425.5, 3751351.8,
511.8,      532.0,       0.0);
( 472445.7, 3751350.7,      511.1,      532.0,       0.0);          ( 472463.2, 3751350.9,
509.4,      532.0,       0.0);
( 472484.1, 3751350.9,      507.3,      532.0,       0.0);          ( 472503.9, 3751351.3,
506.3,      532.0,       0.0);
( 472523.8, 3751351.3,      506.2,      531.0,       0.0);          ( 472543.3, 3751351.3,
506.4,      506.4,       0.0);
( 472563.2, 3751352.2,      506.1,      506.1,       0.0);          ( 472582.6, 3751352.0,
505.8,      505.8,       0.0);
( 472601.3, 3751352.0,      505.3,      505.3,       0.0);          ( 472606.8, 3751367.3,
504.3,      504.3,       0.0);
( 472607.6, 3751396.4,      504.2,      504.2,       0.0);          ( 472608.5, 3751432.1,
505.0,      505.0,       0.0);
( 472608.9, 3751462.6,      504.4,      504.4,       0.0);          ( 472609.5, 3751497.1,
505.0,      505.0,       0.0);
( 472610.7, 3751553.8,      505.4,      505.4,       0.0);          ( 472666.0, 3751554.0,
501.3,      501.3,       0.0);
( 472690.4, 3751553.6,      499.8,      499.8,       0.0);          ( 472713.5, 3751554.3,
499.2,      499.2,       0.0);
( 472734.6, 3751554.0,      497.9,      497.9,       0.0);          ( 472759.5, 3751554.0,
496.2,      496.2,       0.0);
( 472781.8, 3751554.5,      494.9,      499.0,       0.0);          ( 472849.8, 3751556.1,
495.4,      495.4,       0.0);
( 472871.8, 3751556.1,      494.9,      494.9,       0.0);          ( 472895.2, 3751555.6,
494.2,      494.2,       0.0);
( 472922.6, 3751555.9,      493.8,      493.8,       0.0);          ( 473092.4, 3751802.3,
486.1,      486.1,       0.0);
( 473204.8, 3751856.8,      481.6,      481.6,       0.0);          ( 472991.2, 3752083.3,
484.1,      484.1,       0.0);
( 473295.1, 3752052.5,      478.7,      478.7,       0.0);          ( 473356.8, 3752050.3,
476.8,      476.8,       0.0);
( 473495.1, 3751996.6,      476.0,      476.0,       0.0);          ( 473486.5, 3751917.7,
475.8,      475.8,       0.0);
( 473392.6, 3752058.2,      475.9,      475.9,       0.0);          ( 473464.3, 3752082.6,
475.2,      475.2,       0.0);
( 473550.3, 3752087.6,      473.0,      473.0,       0.0);          ( 473584.7, 3752089.8,
473.0,      473.0,       0.0);
( 472765.6, 3752474.1,      477.2,      495.0,       0.0);          ( 470432.2, 3750483.9,
532.6,      532.6,       0.0);
( 469244.1, 3754182.8,      471.3,      485.0,       0.0);          ( 469596.8, 3750785.6,
493.4,      493.4,       0.0);
( 470466.5, 3750530.3,      535.0,      535.0,       0.0);          ( 469319.3, 3749244.5,
500.0,      500.0,       0.0);
( 469229.6, 3749502.2,      503.4,      503.4,       0.0);          ( 468465.4, 3749582.3,
490.5,      490.5,       0.0);
( 471438.4, 3750129.8,      539.2,      539.2,       0.0);          ( 471657.5, 3749918.8,
535.4,      535.4,       0.0);
```

```
( 471732.9, 3749916.5,      534.7,      534.7,      0.0);          ( 471710.3, 3750132.8,
537.0,      537.0,      0.0);
( 471273.9, 3750119.8,      540.5,      540.5,      0.0);          ( 470973.4, 3752300.8,
503.8,      503.8,      0.0);
( 470974.0, 3752278.4,      504.4,      504.4,      0.0);          ( 470974.0, 3752235.6,
505.0,      505.0,      0.0);
( 470971.9, 3752174.6,      506.2,      506.2,      0.0);          ( 470967.2, 3752139.2,
509.1,      509.1,      0.0);
( 470962.5, 3752110.5,      510.8,      510.8,      0.0);          ( 470952.6, 3752077.1,
512.0,      512.0,      0.0);
( 470935.3, 3752029.1,      508.7,      512.0,      0.0);          ( 470922.3, 3751998.9,
506.1,      511.0,      0.0);
( 470910.3, 3751966.5,      508.0,      508.0,      0.0);          ( 470891.5, 3751915.4,
510.8,      510.8,      0.0);
( 470880.6, 3751877.9,      512.3,      512.3,      0.0);          ( 470874.8, 3751848.1,
513.4,      517.0,      0.0);
( 470871.7, 3751810.6,      517.1,      517.1,      0.0);          ( 470871.2, 3751779.3,
517.1,      517.1,      0.0);
( 470872.2, 3751740.7,      515.6,      515.6,      0.0);          ( 470876.4, 3751710.4,
514.9,      514.9,      0.0);
( 470884.8, 3751671.8,      514.8,      514.8,      0.0);          ( 470900.4, 3751616.6,
516.8,      516.8,      0.0);
( 470911.9, 3751582.7,      518.5,      518.5,      0.0);          ( 470919.7, 3751556.1,
518.3,      518.3,      0.0);
( 470931.2, 3751524.2,      516.9,      516.9,      0.0);          ( 470940.0, 3751496.6,
515.6,      515.6,      0.0);
( 470951.5, 3751461.1,      514.4,      514.4,      0.0);          ( 470962.0, 3751424.6,
513.8,      513.8,      0.0);
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                  PAGE 191
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                          (1=YES; 0=NO)

       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
       1   1 1 1 1 1 1 1 1 1 1
       1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

                NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
                INCLUDED IN THE DATA FILE.

                              *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES
                              ***

                                          (METERS/SEC)

                              1.54,   3.09,   5.14,   8.23, 10.80,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                   *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

   Surface file:
   KRAL_V9_ADJU\KRAL_v9.SFC   Met
   Version: 16216
   Profile file:
   KRAL_V9_ADJU\KRAL_v9.PFL
   Surface format:
   FREE

   Profile format:
   FREE

   Surface station no.:   3171   Upper air station no.:   3190
                 Name: UNKNOWN   Name:
                 UNKNOWN
                 Year: 2012   Year: 2012

 First 24 hours of scalar data
 YR MO DY JDY HR   H0   U*   W*   DT/DZ ZICNV ZIMCH M-O LEN   Z0 BOWEN ALBEDO REF WS
 WD   HT   REF TA   HT
- -
- - - - - - - - - - - - -
 12 01 01   1 01 -25.6 0.266 -9.000 -9.000 -999. 330.   77.9 0.15   2.40   1.00   2.93
 55.   10.1 288.1   2.0
 12 01 01   1 02 -26.8 0.277 -9.000 -9.000 -999. 351.   84.7 0.15   2.40   1.00   3.05
 55.   10.1 287.0   2.0
 12 01 01   1 03 -21.5 0.221 -9.000 -9.000 -999. 250.   53.5 0.15   2.40   1.00   2.45
 74.   10.1 284.2   2.0
 12 01 01   1 04 -22.0 0.227 -9.000 -9.000 -999. 260.   56.8 0.15   2.40   1.00   2.52
 77.   10.1 285.9   2.0
 12 01 01   1 05 -20.0 0.206 -9.000 -9.000 -999. 225.   46.8 0.15   2.40   1.00   2.30
 80.   10.1 285.4   2.0
 12 01 01   1 06 -14.4 0.171 -9.000 -9.000 -999. 170.   32.1 0.15   2.40   1.00   1.93
 79.   10.1 287.0   2.0
 12 01 01   1 07 -14.9 0.174 -9.000 -9.000 -999. 174.   33.2 0.15   2.40   1.00   1.96
 77.   10.1 284.2   2.0
 12 01 01   1 08 -11.9 0.169 -9.000 -9.000 -999. 167.   36.1 0.15   2.40   0.53   1.89
 77.   10.1 288.1   2.0
 12 01 01   1 09   40.4 0.234 0.359 0.006   40. 272.   -28.1 0.15   2.40   0.31   2.10
 81.   10.1 289.2   2.0
 12 01 01   1 10 112.6 0.246 0.742 0.005 129. 293.   -11.8 0.15   2.40   0.24   1.99
 101.   10.1 296.4   2.0
 12 01 01   1 11 161.0 0.402 1.188 0.005 369. 611.   -35.6 0.15   2.40   0.21   3.68
 78.   10.1 298.8   2.0
 12 01 01   1 12 184.7 0.337 1.516 0.005 668. 473.   -18.4 0.15   2.40   0.20   2.89
 68.   10.1 300.4   2.0
 12 01 01   1 13 183.9 0.310 1.809 0.005 1139. 414.   -14.2 0.15   2.40   0.20   2.57
 64.   10.1 302.5   2.0
 12 01 01   1 14 156.6 0.374 1.852 0.005 1434. 549.   -29.5 0.15   2.40   0.22   3.37
 63.   10.1 303.1   2.0
 12 01 01   1 15 104.3 0.382 1.658 0.005 1546. 567.   -47.2 0.15   2.40   0.25   3.59
 62.   10.1 302.5   2.0
 12 01 01   1 16   31.8 0.374 1.123 0.005 1573. 550.   -145.8 0.15   2.40   0.34   3.76
 69.   10.1 300.9   2.0
 12 01 01   1 17 -23.3 0.276 -9.000 -9.000 -999. 354.   84.0 0.15   2.40   0.62   3.03
 59.   10.1 297.5   2.0
 12 01 01   1 18 -21.5 0.229 -9.000 -9.000 -999. 264.   57.8 0.15   2.40   1.00   2.54
 54.   10.1 295.4   2.0

```
12 01 01   1 19  -19.3  0.204 -9.000 -9.000 -999.  221.     45.6  0.15    2.40    1.00    2.27
79.   10.1  292.0    2.0
12 01 01   1 20  -20.7  0.218 -9.000 -9.000 -999.  244.     52.2  0.15    2.40    1.00    2.42
79.   10.1  292.5    2.0
12 01 01   1 21  -19.7  0.206 -9.000 -9.000 -999.  225.     46.9  0.15    2.40    1.00    2.30
95.   10.1  290.9    2.0
12 01 01   1 22  -17.6  0.190 -9.000 -9.000 -999.  199.     39.8  0.15    2.40    1.00    2.13
78.   10.1  290.4    2.0
12 01 01   1 23  -20.3  0.211 -9.000 -9.000 -999.  233.     49.0  0.15    2.40    1.00    2.35
52.   10.1  289.2    2.0
12 01 01   1 24  -16.4  0.183 -9.000 -9.000 -999.  189.     37.0  0.15    2.40    1.00    2.06
75.   10.1  288.8    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01   10.1 1   55.    2.93   288.2   99.0  -99.00  -99.00


 F indicates top of profile (=1) or below (=0)
 ▉▉ *** AERMOD - VERSION 22112  ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***       11/01/23
 *** AERMET - VERSION  16216 ***
 ***                                                            ***       16:21:25

                    PAGE 193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                          SOURCE GROUP: ALL      ***
                             INCLUDING SOURCE(S):     L0016311   , L0016312    ,
                             L0016313   , L0016314   , L0016315   ,
               L0016316   , L0016317   , L0016318   , L0016319   , L0016320    ,
               L0016321   , L0016322   , L0016323   ,
               L0016324   , L0016325   , L0016326   , L0016327   , L0016328    ,
               L0016329   , L0016330   , L0016331   ,
               L0016332   , L0016333   , L0016334   , L0016335   , L0016336    ,
               L0016337   , L0016338   , . . .     ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                         ** CONC OF DPM       IN
                         MICROGRAMS/M**3                          **

      X-COORD (M)   Y-COORD (M)      CONC                X-COORD (M)   Y-COORD
      (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
       472283.74   3752640.98      0.00207                472482.23
       3752398.04      0.00270
       472477.97   3752183.12      0.00418                472148.10
       3752531.53      0.00286
       472052.12   3752531.22      0.00318                471975.52
       3752531.22      0.00341
       471896.06   3752530.90      0.00366                471840.76
       3752529.94      0.00379
       471816.60   3752527.08      0.00381                471736.82
       3752557.91      0.00362
       471696.59   3752558.87      0.00363                471627.29
       3752556.22      0.00373
       471584.60   3752556.76      0.00378                471560.01
       3752556.22      0.00378
       471534.35   3752554.87      0.00376                471514.89
       3752554.87      0.00372
       471486.79   3752555.68      0.00371                471465.72
       3752555.41      0.00369
       471442.21   3752554.98      0.00362                471419.71
```

	3752552.46	0.00360	
471394.22	3752552.91	0.00357	471363.44
	3752552.46	0.00355	
471332.68	3752553.31	0.00351	471307.62
	3752552.94	0.00347	
471284.05	3752552.70	0.00340	471261.98
	3752552.70	0.00332	
471241.90	3752552.70	0.00326	471223.15
	3752552.86	0.00320	
471205.90	3752552.86	0.00315	471173.21
	3752552.37	0.00305	
471135.70	3752552.53	0.00291	471093.22
	3752551.54	0.00276	
471059.37	3752551.70	0.00263	471020.54
	3752551.20	0.00248	
470981.05	3752563.65	0.00229	470980.39
	3752552.20	0.00234	
470980.06	3752535.61	0.00241	470979.89
	3752517.19	0.00250	
470980.06	3752499.76	0.00258	470980.22
	3752479.85	0.00268	
470980.39	3752459.44	0.00279	470980.22
	3752433.22	0.00295	
470980.06	3752404.02	0.00314	470927.12
	3752402.69	0.00281	
470907.87	3752402.69	0.00269	470887.30
	3752402.69	0.00256	
470869.71	3752402.03	0.00248	470849.63
	3752401.86	0.00239	
470829.39	3752402.19	0.00230	470811.63
	3752402.19	0.00223	
470791.55	3752402.53	0.00215	470773.63
	3752401.86	0.00208	
470749.24	3752402.19	0.00200	470727.72
	3752391.74	0.00195	
470733.04	3752338.97	0.00210	470733.70
	3752320.55	0.00215	
470734.20	3752291.01	0.00223	470733.20
	3752265.78	0.00228	
470732.87	3752218.81	0.00240	470732.54
	3752182.14	0.00249	
470732.37	3752145.29	0.00259	470692.38
	3752144.80	0.00238	
470670.14	3752144.46	0.00228	470651.72
	3752144.30	0.00220	
470633.46	3752144.13	0.00213	470615.54
	3752143.97	0.00206	
470595.95	3752143.30	0.00198	470577.03
	3752143.47	0.00192	
470553.63	3752143.47	0.00184	470528.57
	3752142.64	0.00177	
470507.99	3752142.80	0.00170	470485.59
	3752142.47	0.00164	
470471.60	3752131.63	0.00162	470471.60
	3752109.21	0.00164	
470471.32	3752085.22	0.00167	470471.46
	3752037.68	0.00172	
470471.74	3752013.00	0.00175	470470.89
	3751987.18	0.00177	
470470.89	3751965.74	0.00179	470470.75
	3751944.44	0.00180	

                         *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                         SOURCE GROUP: ALL   ***
                              INCLUDING SOURCE(S):   L0016311   , L0016312   ,
                              L0016313   , L0016314   , L0016315   ,
                   L0016316   , L0016317   , L0016318   , L0016319   , L0016320   ,
                   L0016321   , L0016322   , L0016323   ,
                   L0016324   , L0016325   , L0016326   , L0016327   , L0016328   ,
                   L0016329   , L0016330   , L0016331   ,
                   L0016332   , L0016333   , L0016334   , L0016335   , L0016336   ,
                   L0016337   , L0016338   , . . .   ,

                                   *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                              ** CONC OF DPM   IN
                              MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
470470.61	3751924.27	0.00181	470470.47	3751905.93	0.00182
470470.89	3751884.06	0.00184	470470.61	3751864.03	0.00185
470470.33	3751844.00	0.00185	470470.19	3751824.53	0.00185
470470.33	3751805.77	0.00186	470470.33	3751788.00	0.00186
470470.33	3751761.19	0.00189	470471.03	3751741.87	0.00191
470470.05	3751722.82	0.00193	470470.19	3751703.36	0.00194
470470.19	3751683.75	0.00196	470470.33	3751664.28	0.00197
470470.33	3751642.41	0.00198	470470.47	3751621.82	0.00198
470470.19	3751599.81	0.00198	470470.61	3751578.79	0.00198
470469.62	3751555.94	0.00196	470470.05	3751512.49	0.00193
470468.64	3751414.59	0.00186	470469.76	3751385.25	0.00187
470468.65	3751358.95	0.00186	470462.93	3751325.56	0.00183
470461.98	3751310.62	0.00182	470462.61	3751296.63	0.00180
470462.61	3751283.28	0.00179	470462.61	3751269.92	0.00177
470462.93	3751254.35	0.00175	470461.98	3751240.67	0.00173
470463.25	3751227.64	0.00172	470756.39	3751290.59	0.00256
470797.72	3751268.33	0.00263	470891.19	3751226.38	0.00284
470940.78	3751191.82	0.00283	471000.61	3750923.63	0.00193
471029.26	3750923.63	0.00196	471056.29	3750923.90	0.00198
471077.91	3750924.44	0.00199	471097.64	3750924.44	0.00200
471118.18	3750924.98	0.00199	471138.99	3750927.42	0.00198
471160.07	3750928.77	0.00198	471181.15		

```
      3750931.47       0.00196
   471201.69    3750930.93       0.00195                    471222.50
      3750931.47       0.00195
   471244.13    3750931.20       0.00192                    471264.40
      3750931.74       0.00189
   471284.40    3750931.74       0.00187                    471305.75
      3750931.74       0.00187
   471324.67    3750930.93       0.00190                    471343.05
      3750930.12       0.00193
   471363.86    3750929.04       0.00194                    471381.96
      3750928.77       0.00194
   471400.88    3750928.23       0.00192                    471421.15
      3750927.96       0.00190
   471440.59    3750928.11       0.00189                    471461.83
      3750927.45       0.00188
   471479.76    3750927.95       0.00187                    471499.68
      3750927.62       0.00185
   471519.26    3750928.78       0.00183                    471537.02
      3750929.61       0.00178
   471556.77    3750930.94       0.00170                    471580.68
      3750934.09       0.00156
   471624.00    3750940.23       0.00142                    471795.90
      3750950.11       0.00127
   471796.29    3750967.88       0.00134                    471796.69
      3750987.22       0.00146
   471797.47    3751006.75       0.00162                    471796.69
      3751025.30       0.00172
   471795.90    3751046.40       0.00186                    471796.69
      3751072.96       0.00207
   471797.47    3751143.85       0.00263                    471833.01
      3751143.85       0.00261
   471867.38    3751144.05       0.00266                    471891.02
      3751144.44       0.00269
   471916.60    3751144.24       0.00269                    471939.45
      3751144.24       0.00267
   471963.08    3751144.44       0.00268                    471984.17
      3751144.05       0.00264
```

FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

              PAGE 195
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                       *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                       SOURCE GROUP: ALL   ***
                           INCLUDING SOURCE(S):   L0016311   , L0016312   ,
                           L0016313   , L0016314   , L0016315   ,
                 L0016316   , L0016317   , L0016318   , L0016319   , L0016320   ,
                 L0016321   , L0016322   , L0016323   ,
                 L0016324   , L0016325   , L0016326   , L0016327   , L0016328   ,
                 L0016329   , L0016330   , L0016331   ,
                 L0016332   , L0016333   , L0016334   , L0016335   , L0016336   ,
                 L0016337   , L0016338   , . . .   ,

                              *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                       ** CONC OF DPM   IN
                       MICROGRAMS/M**3   **

    X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD
      (M)   CONC
- -
- - - - - - - - - - - - - - - - -
    471999.02   3751163.38   0.00271   472000.19

	3751199.12	0.00282	
471999.80	3751230.56	0.00298	472000.38
	3751251.46	0.00309	
472000.19	3751281.15	0.00327	472001.95
	3751347.94	0.00394	
472036.90	3751348.52	0.00380	472063.07
	3751349.31	0.00370	
472084.56	3751348.33	0.00361	472104.87
	3751348.72	0.00354	
472127.33	3751348.52	0.00346	472150.76
	3751349.70	0.00341	
472171.47	3751349.50	0.00336	472194.12
	3751349.11	0.00331	
472222.63	3751348.72	0.00323	472247.83
	3751349.50	0.00318	
472269.70	3751349.11	0.00311	472290.40
	3751350.28	0.00306	
472313.64	3751350.48	0.00298	472333.76
	3751351.26	0.00293	
472354.85	3751351.26	0.00288	472377.70
	3751351.06	0.00282	
472401.72	3751351.06	0.00277	472425.55
	3751351.84	0.00272	
472445.67	3751350.67	0.00267	472463.24
	3751350.87	0.00264	
472484.14	3751350.87	0.00260	472503.87
	3751351.26	0.00256	
472523.79	3751351.26	0.00252	472543.32
	3751351.26	0.00248	
472563.24	3751352.24	0.00244	472582.57
	3751352.04	0.00240	
472601.32	3751352.04	0.00237	472606.79
	3751367.27	0.00243	
472607.57	3751396.37	0.00255	472608.55
	3751432.11	0.00271	
472608.94	3751462.58	0.00287	472609.52
	3751497.15	0.00305	
472610.70	3751553.78	0.00340	472665.97
	3751553.98	0.00326	
472690.38	3751553.59	0.00320	472713.50
	3751554.27	0.00314	
472734.64	3751554.04	0.00310	472759.46
	3751554.04	0.00306	
472781.75	3751554.50	0.00302	472849.76
	3751556.11	0.00285	
472871.82	3751556.11	0.00281	472895.25
	3751555.65	0.00277	
472922.60	3751555.88	0.00271	473092.41
	3751802.31	0.00428	
473204.80	3751856.81	0.00465	472991.21
	3752083.31	0.00494	
473295.12	3752052.49	0.01093	473356.76
	3752050.34	0.01336	
473495.10	3751996.58	0.00911	473486.50
	3751917.74	0.00519	
473392.60	3752058.22	0.01234	473464.28
	3752082.59	0.00890	
473550.29	3752087.61	0.00859	473584.69
	3752089.76	0.00867	
472765.59	3752474.09	0.00191	470432.16
	3750483.93	0.00090	
469244.06	3754182.82	0.00026	469596.75
	3750785.65	0.00069	
470466.55	3750530.27	0.00094	469319.29
	3749244.53	0.00034	
469229.64	3749502.19	0.00037	468465.38

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                  3749582.33          0.00031
         471438.37    3750129.76          0.00060                      471657.54
                  3749918.78          0.00053
         471732.91    3749916.52          0.00053                      471710.30
                  3750132.80          0.00061
         471273.89    3750119.77          0.00059                      470973.43
                  3752300.84          0.00383
         470973.95    3752278.41          0.00405                      470973.95
                  3752235.65          0.00442
         470971.86    3752174.63          0.00485                      470967.17
                  3752139.16          0.00511
         470962.47    3752110.48          0.00528                      470952.57
                  3752077.10          0.00540
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                  PAGE 196
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

```
                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION   VALUES FOR
                              SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0016311    , L0016312    ,
                                  L0016313   , L0016314   , L0016315    ,
                  L0016316    , L0016317   , L0016318   , L0016319   , L0016320    ,
                  L0016321    , L0016322   , L0016323    ,
                  L0016324    , L0016325   , L0016326   , L0016327    , L0016328    ,
                  L0016329    , L0016330   , L0016331    ,
                  L0016332    , L0016333   , L0016334   , L0016335    , L0016336    ,
                  L0016337    , L0016338   , . . .       ,


                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***


                              ** CONC OF DPM       IN
                              MICROGRAMS/M**3                              **


      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)   Y-COORD
      (M)        CONC
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -
         470935.35    3752029.11          0.00527                      470922.32
                  3751998.86          0.00509
         470910.32    3751966.53          0.00508                      470891.54
                  3751915.42          0.00500
         470880.59    3751877.86          0.00495                      470874.85
                  3751848.14          0.00493
         470871.72    3751810.58          0.00499                      470871.20
                  3751779.29          0.00496
         470872.25    3751740.70          0.00490                      470876.42
                  3751710.45          0.00490
         470884.76    3751671.85          0.00494                      470900.41
                  3751616.57          0.00499
         470911.88    3751582.67          0.00501                      470919.71
                  3751556.07          0.00496
         470931.18    3751524.25          0.00491                      470940.05
                  3751496.61          0.00481
         470951.52    3751461.14          0.00467                      470961.95
                  3751424.64          0.00448
```

🔳 *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West
Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

                  PAGE 197
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

** CONC OF DPM   IN MICROGRAMS/M**3   **

```
               NETWORK
GROUP ID                        AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL,
ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS      0.01336 AT (  473356.76,  3752050.34,   476.76,
476.76,    0.00)  DC
         2ND HIGHEST VALUE IS      0.01234 AT (  473392.60,  3752058.22,   475.95,
         475.95,    0.00)  DC
         3RD HIGHEST VALUE IS      0.01093 AT (  473295.12,  3752052.49,   478.66,
         478.66,    0.00)  DC
         4TH HIGHEST VALUE IS      0.00911 AT (  473495.10,  3751996.58,   476.00,
         476.00,    0.00)  DC
         5TH HIGHEST VALUE IS      0.00890 AT (  473464.28,  3752082.59,   475.18,
         475.18,    0.00)  DC
         6TH HIGHEST VALUE IS      0.00867 AT (  473584.69,  3752089.76,   473.00,
         473.00,    0.00)  DC
         7TH HIGHEST VALUE IS      0.00859 AT (  473550.29,  3752087.61,   472.99,
         472.99,    0.00)  DC
         8TH HIGHEST VALUE IS      0.00540 AT (  470952.57,  3752077.10,   512.03,
         512.03,    0.00)  DC
         9TH HIGHEST VALUE IS      0.00528 AT (  470962.47,  3752110.48,   510.75,
         510.75,    0.00)  DC
        10TH HIGHEST VALUE IS      0.00527 AT (  470935.35,  3752029.11,   508.72,
         512.00,    0.00)  DC
```

```
 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```
FF *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\14064 West Campus\14064 Ops\140 ***   11/01/23
 *** AERMET - VERSION 16216 ***
 ***   ***   16:21:25

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   21 Warning Message(s)
 A Total of   1638 Informational Message(s)

 A Total of   43848 Hours Were Processed

 A Total of   1039 Calm Hours Identified

 A Total of   599 Missing Hours Identified (1.37 Percent)

     ******** FATAL ERROR MESSAGES ********
             ***   NONE   ***

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APPENDIX 2.4:

RISK CALCULATIONS

Construction Risk - Without Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk				Non-Cancer Risk								
										URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	0 to 2	0.00517	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.9E-06	2.52	5.0E+00	1.4E-03	1.0E-03						
												Total	2.52			1.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	0 to 2	0.00575	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.3E-06	2.80	5.0E+00	1.4E-03	1.2E-03						
												Total	2.80			1.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	0 to 2	0.00638	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.8E-06	3.11	5.0E+00	1.4E-03	1.3E-03						
												Total	3.11			1.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	0 to 2	0.00479	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.6E-06	2.33	5.0E+00	1.4E-03	9.6E-04						
												Total	2.33			9.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	0 to 2	0.00530	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.0E-06	2.58	5.0E+00	1.4E-03	1.1E-03						
												Total	2.58			1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	0 to 2	0.00508	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.8E-06	2.47	5.0E+00	1.4E-03	1.0E-03						
												Total	2.47			1.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	0 to 2	0.00293	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.2E-06	1.43	5.0E+00	1.4E-03	5.9E-04						
												Total	1.43			5.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00800	180	4.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.3E-06	0.44	5.0E+00	1.4E-03	1.6E-03						
												Total	0.44			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	0 to 2	0.00185	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.4E-06	0.90	5.0E+00	1.4E-03	3.7E-04						
												Total	0.90			3.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	0 to 2	0.00349	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.6E-06	1.70	5.0E+00	1.4E-03	7.0E-04						
												Total	1.70			7.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11 (MEIR)	0 to 2	0.00938	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	7.0E-06	4.57	5.0E+00	1.4E-03	1.9E-03						
												Total	4.57			1.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12	0 to 2	0.00746	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.6E-06	3.63	5.0E+00	1.4E-03	1.5E-03						
												Total	3.63			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.01060	250	4.35	230	1	70	1.00	1	3.0E-04	1.1E+00	1.7E-06	0.11	5.0E+00	1.4E-03	2.1E-03						
												Total	0.11			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Construction Risk - With Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk URF	CPF	Dose	Risk (per million)	Non-Cancer Risk REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	0 to 2	0.00065	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.9E-07	0.32	5.0E+00	1.4E-03	1.3E-04						
												Total	0.32			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	0 to 2	0.00071	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.3E-07	0.35	5.0E+00	1.4E-03	1.4E-04						
												Total	0.35			1.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	0 to 2	0.00077	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.7E-07	0.37	5.0E+00	1.4E-03	1.5E-04						
												Total	0.37			1.5E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	0 to 2	0.00080	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	6.0E-07	0.39	5.0E+00	1.4E-03	1.6E-04						
												Total	0.39			1.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	0 to 2	0.00069	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.2E-07	0.34	5.0E+00	1.4E-03	1.4E-04						
												Total	0.34			1.4E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	0 to 2	0.00065	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.9E-07	0.32	5.0E+00	1.4E-03	1.3E-04						
												Total	0.32			1.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	0 to 2	0.00038	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.8E-07	0.19	5.0E+00	1.4E-03	7.6E-05						
												Total	0.19			7.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00098	180	4.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.8E-07	0.05	5.0E+00	1.4E-03	2.0E-04						
												Total	0.05			2.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	0 to 2	0.00023	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.7E-07	0.11	5.0E+00	1.4E-03	4.6E-05						
												Total	0.11			4.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	0 to 2	0.00048	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.6E-07	0.23	5.0E+00	1.4E-03	9.6E-05						
												Total	0.23			9.6E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11 (MEIR)	0 to 2	0.00114	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	8.5E-07	0.56	5.0E+00	1.4E-03	2.3E-04						
												Total	0.56			2.3E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12	0 to 2	0.00097	250	4.35	1090	1	70	1.00	10	3.0E-04	1.1E+00	7.2E-07	0.47	5.0E+00	1.4E-03	1.9E-04						
												Total	0.47			1.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.00775	250	4.35	230	1	70	1.00	1	3.0E-04	1.1E+00	1.2E-06	0.08	5.0E+00	1.4E-03	1.6E-03						
												Total	0.08			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Operational Risk - Without Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk				Non-Cancer Risk								
										URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	-0.25 to 0	0.00701	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	2.4E-06	0.08	5.0E+00	1.4E-03	1.4E-03						
	0 to 2	0.00701	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	7.3E-06	1.87	5.0E+00	1.4E-03	1.4E-03						
	2 to 16	0.00701	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.8E-06	1.74	5.0E+00	1.4E-03	1.4E-03						
	16 to 30	0.00701	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.8E-06	0.27	5.0E+00	1.4E-03	1.4E-03						
												Total	3.96			5.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	-0.25 to 0	0.00931	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	3.2E-06	0.10	5.0E+00	1.4E-03	1.9E-03						
	0 to 2	0.00931	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	9.7E-06	2.48	5.0E+00	1.4E-03	1.9E-03						
	2 to 16	0.00931	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	5.1E-06	2.32	5.0E+00	1.4E-03	1.9E-03						
	16 to 30	0.00931	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.3E-06	0.36	5.0E+00	1.4E-03	1.9E-03						
												Total	5.26			7.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3 (MEIR)	-0.25 to 0	0.00932	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	3.2E-06	0.10	5.0E+00	1.4E-03	1.9E-03						
	0 to 2	0.00932	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	9.7E-06	2.48	5.0E+00	1.4E-03	1.9E-03						
	2 to 16	0.00932	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	5.1E-06	2.32	5.0E+00	1.4E-03	1.9E-03						
	16 to 30	0.00932	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.3E-06	0.36	5.0E+00	1.4E-03	1.9E-03						
												Total	5.26			7.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	-0.25 to 0	0.00561	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.9E-06	0.06	5.0E+00	1.4E-03	1.1E-03						
	0 to 2	0.00561	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	5.9E-06	1.50	5.0E+00	1.4E-03	1.1E-03						
	2 to 16	0.00561	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.1E-06	1.40	5.0E+00	1.4E-03	1.1E-03						
	16 to 30	0.00561	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.4E-06	0.22	5.0E+00	1.4E-03	1.1E-03						
												Total	3.17			4.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	-0.25 to 0	0.00692	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	2.4E-06	0.08	5.0E+00	1.4E-03	1.4E-03						
	0 to 2	0.00692	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	7.2E-06	1.84	5.0E+00	1.4E-03	1.4E-03						
	2 to 16	0.00692	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.8E-06	1.72	5.0E+00	1.4E-03	1.4E-03						
	16 to 30	0.00692	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.7E-06	0.27	5.0E+00	1.4E-03	1.4E-03						
												Total	3.91			5.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	-0.25 to 0	0.00605	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	2.1E-06	0.07	5.0E+00	1.4E-03	1.2E-03						
	0 to 2	0.00605	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	6.3E-06	1.61	5.0E+00	1.4E-03	1.2E-03						
	2 to 16	0.00605	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.3E-06	1.51	5.0E+00	1.4E-03	1.2E-03						
	16 to 30	0.00605	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.5E-06	0.23	5.0E+00	1.4E-03	1.2E-03						
												Total	3.42			4.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	-0.25 to 0	0.00426	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.5E-06	0.05	5.0E+00	1.4E-03	8.5E-04						
	0 to 2	0.00426	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	4.5E-06	1.14	5.0E+00	1.4E-03	8.5E-04						
	2 to 16	0.00426	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	2.3E-06	1.06	5.0E+00	1.4E-03	8.5E-04						
	16 to 30	0.00426	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.1E-06	0.16	5.0E+00	1.4E-03	8.5E-04						
												Total	2.41			3.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00648	180	9.00	572	1	70	1.00	3	3.0E-04	1.1E+00	1.8E-06	0.74	5.0E+00	1.4E-03	1.3E-03						
												Total	0.74			1.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	-0.25 to 0	0.00450	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.6E-06	0.05	5.0E+00	1.4E-03	9.0E-04						
	0 to 2	0.00450	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	4.7E-06	1.20	5.0E+00	1.4E-03	9.0E-04						
	2 to 16	0.00450	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	2.5E-06	1.12	5.0E+00	1.4E-03	9.0E-04						
	16 to 30	0.00450	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.1E-06	0.17	5.0E+00	1.4E-03	9.0E-04						
												Total	2.54			3.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	-0.25 to 0	0.00672	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	2.3E-06	0.07	5.0E+00	1.4E-03	1.3E-03						
	0 to 2	0.00672	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	7.0E-06	1.79	5.0E+00	1.4E-03	1.3E-03						
	2 to 16	0.00672	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.7E-06	1.67	5.0E+00	1.4E-03	1.3E-03						
	16 to 30	0.00672	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.7E-06	0.26	5.0E+00	1.4E-03	1.3E-03						
												Total	3.79			5.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11	-0.25 to 0	0.00761	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	2.6E-06	0.08	5.0E+00	1.4E-03	1.5E-03						
	0 to 2	0.00761	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	8.0E-06	2.03	5.0E+00	1.4E-03	1.5E-03						
	2 to 16	0.00761	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	4.2E-06	1.89	5.0E+00	1.4E-03	1.5E-03						
	16 to 30	0.00761	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.9E-06	0.29	5.0E+00	1.4E-03	1.5E-03						
												Total	4.30			6.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12	-0.25 to 0	0.00889	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	3.1E-06	0.10	5.0E+00	1.4E-03	1.8E-03						
	0 to 2	0.00889	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	9.3E-06	2.37	5.0E+00	1.4E-03	1.8E-03						
	2 to 16	0.00889	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	4.9E-06	2.21	5.0E+00	1.4E-03	1.8E-03						
	16 to 30	0.00889	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.2E-06	0.34	5.0E+00	1.4E-03	1.8E-03						
												Total	5.02			7.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.01500	250	25	230	1	70	1.00	1	3.0E-04	1.1E+00	2.4E-06	0.89	5.0E+00	1.4E-03	3.0E-03						
												Total	0.89			3.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Park	4 to 13	0.01292	180	9.00	572	1	70	1.00	3	3.0E-04	1.1E+00	3.6E-06	1.48	5.0E+00	1.4E-03	2.6E-03						
												Total	1.48			2.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Park (Residential)	-0.25 to 0	0.01292	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	4.5E-06	0.14	5.0E+00	1.4E-03	2.6E-03						
	0 to 2	0.01292	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	1.4E-05	3.44	5.0E+00	1.4E-03	2.6E-03						
	2 to 16	0.01292	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	7.1E-06	3.21	5.0E+00	1.4E-03	2.6E-03						
	16 to 30	0.01292	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	3.2E-06	0.50	5.0E+00	1.4E-03	2.6E-03						
												Total	7.30			1.0E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Operational Risk - With Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk				Non-Cancer Risk								
										URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	-0.25 to 0	0.00305	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.1E-06	0.03	5.0E+00	1.4E-03	6.1E-04						
	0 to 2	0.00305	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	3.2E-06	0.81	5.0E+00	1.4E-03	6.1E-04						
	2 to 16	0.00305	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.76	5.0E+00	1.4E-03	6.1E-04						
	16 to 30	0.00305	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	7.6E-07	0.12	5.0E+00	1.4E-03	6.1E-04						
												Total	1.72			2.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	-0.25 to 0	0.00378	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.3E-06	0.04	5.0E+00	1.4E-03	7.6E-04						
	0 to 2	0.00378	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	4.0E-06	1.01	5.0E+00	1.4E-03	7.6E-04						
	2 to 16	0.00378	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	2.1E-06	0.94	5.0E+00	1.4E-03	7.6E-04						
	16 to 30	0.00378	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.5E-07	0.15	5.0E+00	1.4E-03	7.6E-04						
												Total	2.13			3.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	-0.25 to 0	0.00366	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.3E-06	0.04	5.0E+00	1.4E-03	7.3E-04						
	0 to 2	0.00366	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	3.8E-06	0.98	5.0E+00	1.4E-03	7.3E-04						
	2 to 16	0.00366	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	2.0E-06	0.91	5.0E+00	1.4E-03	7.3E-04						
	16 to 30	0.00366	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.2E-07	0.14	5.0E+00	1.4E-03	7.3E-04						
												Total	2.07			2.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	-0.25 to 0	0.00310	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.1E-06	0.03	5.0E+00	1.4E-03	6.2E-04						
	0 to 2	0.00310	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	3.2E-06	0.83	5.0E+00	1.4E-03	6.2E-04						
	2 to 16	0.00310	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.77	5.0E+00	1.4E-03	6.2E-04						
	16 to 30	0.00310	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	7.8E-07	0.12	5.0E+00	1.4E-03	6.2E-04						
												Total	1.75			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	-0.25 to 0	0.00318	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.1E-06	0.04	5.0E+00	1.4E-03	6.4E-04						
	0 to 2	0.00318	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	3.3E-06	0.85	5.0E+00	1.4E-03	6.4E-04						
	2 to 16	0.00318	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.79	5.0E+00	1.4E-03	6.4E-04						
	16 to 30	0.00318	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	8.0E-07	0.12	5.0E+00	1.4E-03	6.4E-04						
												Total	1.80			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	-0.25 to 0	0.00263	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	9.1E-07	0.03	5.0E+00	1.4E-03	5.3E-04						
	0 to 2	0.00263	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	2.7E-06	0.70	5.0E+00	1.4E-03	5.3E-04						
	2 to 16	0.00263	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.4E-06	0.65	5.0E+00	1.4E-03	5.3E-04						
	16 to 30	0.00263	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	6.6E-07	0.10	5.0E+00	1.4E-03	5.3E-04						
												Total	1.49			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	-0.25 to 0	0.00185	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	6.4E-07	0.02	5.0E+00	1.4E-03	3.7E-04						
	0 to 2	0.00185	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	1.9E-06	0.49	5.0E+00	1.4E-03	3.7E-04						
	2 to 16	0.00185	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.0E-06	0.46	5.0E+00	1.4E-03	3.7E-04						
	16 to 30	0.00185	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	4.6E-07	0.07	5.0E+00	1.4E-03	3.7E-04						
												Total	1.04			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00284	180	9.00	572	1	70	1.00	3	3.0E-04	1.1E+00	8.0E-07	0.32	5.0E+00	1.4E-03	5.7E-04						
												Total	0.32			5.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	-0.25 to 0	0.00198	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	6.9E-07	0.02	5.0E+00	1.4E-03	4.0E-04						
	0 to 2	0.00198	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	2.1E-06	0.53	5.0E+00	1.4E-03	4.0E-04						
	2 to 16	0.00198	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.1E-06	0.49	5.0E+00	1.4E-03	4.0E-04						
	16 to 30	0.00198	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	5.0E-07	0.08	5.0E+00	1.4E-03	4.0E-04						
												Total	1.12			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	-0.25 to 0	0.00213	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	7.4E-07	0.02	5.0E+00	1.4E-03	4.3E-04						
	0 to 2	0.00213	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	2.2E-06	0.57	5.0E+00	1.4E-03	4.3E-04						
	2 to 16	0.00213	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.2E-06	0.53	5.0E+00	1.4E-03	4.3E-04						
	16 to 30	0.00213	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	5.3E-07	0.08	5.0E+00	1.4E-03	4.3E-04						
												Total	1.20			1.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11	-0.25 to 0	0.00259	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	9.0E-07	0.03	5.0E+00	1.4E-03	5.2E-04						
	0 to 2	0.00259	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	2.7E-06	0.69	5.0E+00	1.4E-03	5.2E-04						
	2 to 16	0.00259	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	1.4E-06	0.64	5.0E+00	1.4E-03	5.2E-04						
	16 to 30	0.00259	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	6.5E-07	0.10	5.0E+00	1.4E-03	5.2E-04						
												Total	1.46			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12 (MEIR)	-0.25 to 0	0.00394	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.4E-06	0.04	5.0E+00	1.4E-03	7.9E-04						
	0 to 2	0.00394	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	4.1E-06	1.05	5.0E+00	1.4E-03	7.9E-04						
	2 to 16	0.00394	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	2.2E-06	0.98	5.0E+00	1.4E-03	7.9E-04						
	16 to 30	0.00394	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.9E-07	0.15	5.0E+00	1.4E-03	7.9E-04						
												Total	2.23			3.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.01336	250	25	230	1	70	1.00	1	3.0E-04	1.1E+00	2.1E-06	0.79	5.0E+00	1.4E-03	2.7E-03						
												Total	0.79			2.7E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Park	4 to 13	0.00540	180	9.00	572	1	70	1.00	3	3.0E-04	1.1E+00	1.5E-06	0.62	5.0E+00	1.4E-03	1.1E-03						
												Total	0.62			1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Park (Residential)	-0.25 to 0	0.00540	350	0.25	361	1	70	0.85	10	3.0E-04	1.1E+00	1.9E-06	0.06	5.0E+00	1.4E-03	1.1E-03						
	0 to 2	0.00540	350	2	1090	1	70	0.85	10	3.0E-04	1.1E+00	5.6E-06	1.44	5.0E+00	1.4E-03	1.1E-03						
	2 to 16	0.00540	350	14	572	1	70	0.72	3	3.0E-04	1.1E+00	3.0E-06	1.34	5.0E+00	1.4E-03	1.1E-03						
	16 to 30	0.00540	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.4E-06	0.21	5.0E+00	1.4E-03	1.1E-03						
												Total	3.05			4.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Combined Construction and Operational Risk - Without Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	Cancer Risk				Non-Cancer Risk								
										URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	0 to 2	0.00517	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.9E-06	1.16	5.0E+00	1.4E-03	1.0E-03						
	2 to 16	0.00517	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.0E-06	0.21	5.0E+00	1.4E-03	1.0E-03						
	2 to 16	0.00701	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	3.8E-06	1.45	5.0E+00	1.4E-03	1.4E-03						
	16 to 30	0.00701	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.8E-06	0.27	5.0E+00	1.4E-03	1.4E-03						
												Total	3.09			4.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	0 to 2	0.00575	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.3E-06	1.29	5.0E+00	1.4E-03	1.2E-03						
	2 to 16	0.00575	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.3E-06	0.24	5.0E+00	1.4E-03	1.2E-03						
	2 to 16	0.00931	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	5.1E-06	1.93	5.0E+00	1.4E-03	1.9E-03						
	16 to 30	0.00931	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.3E-06	0.36	5.0E+00	1.4E-03	1.9E-03						
												Total	3.81			6.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	0 to 2	0.00638	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.8E-06	1.43	5.0E+00	1.4E-03	1.3E-03						
	2 to 16	0.00638	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.5E-06	0.26	5.0E+00	1.4E-03	1.3E-03						
	2 to 16	0.00932	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	5.1E-06	1.93	5.0E+00	1.4E-03	1.9E-03						
	16 to 30	0.00932	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.3E-06	0.36	5.0E+00	1.4E-03	1.9E-03						
												Total	3.98			6.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	0 to 2	0.00479	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.6E-06	1.07	5.0E+00	1.4E-03	9.6E-04						
	2 to 16	0.00479	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	1.9E-06	0.20	5.0E+00	1.4E-03	9.6E-04						
	2 to 16	0.00561	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	3.1E-06	1.16	5.0E+00	1.4E-03	1.1E-03						
	16 to 30	0.00561	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.4E-06	0.22	5.0E+00	1.4E-03	1.1E-03						
												Total	2.65			4.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	0 to 2	0.00530	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.0E-06	1.19	5.0E+00	1.4E-03	1.1E-03						
	2 to 16	0.00530	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.1E-06	0.22	5.0E+00	1.4E-03	1.1E-03						
	2 to 16	0.00692	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	3.8E-06	1.43	5.0E+00	1.4E-03	1.4E-03						
	16 to 30	0.00692	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.7E-06	0.27	5.0E+00	1.4E-03	1.4E-03						
												Total	3.10			4.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	0 to 2	0.00508	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.8E-06	1.14	5.0E+00	1.4E-03	1.0E-03						
	2 to 16	0.00508	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.0E-06	0.21	5.0E+00	1.4E-03	1.0E-03						
	2 to 16	0.00605	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	3.3E-06	1.25	5.0E+00	1.4E-03	1.2E-03						
	16 to 30	0.00605	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.5E-06	0.23	5.0E+00	1.4E-03	1.2E-03						
												Total	2.83			4.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	0 to 2	0.00293	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.2E-06	0.66	5.0E+00	1.4E-03	5.9E-04						
	2 to 16	0.00293	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	1.1E-06	0.12	5.0E+00	1.4E-03	5.9E-04						
	2 to 16	0.00426	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	2.3E-06	0.88	5.0E+00	1.4E-03	8.5E-04						
	16 to 30	0.00426	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.1E-06	0.16	5.0E+00	1.4E-03	8.5E-04						
												Total	1.82			2.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00800	180	4.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.3E-06	0.44	5.0E+00	1.4E-03	1.6E-03						
	4 to 13	0.00648	180	4.65	572	1	70	1.00	3	3.0E-04	1.1E+00	1.8E-06	0.38	5.0E+00	1.4E-03	1.3E-03						
												Total	0.82			2.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	0 to 2	0.00185	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.4E-06	0.41	5.0E+00	1.4E-03	3.7E-04						
	2 to 16	0.00185	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	7.2E-07	0.08	5.0E+00	1.4E-03	3.7E-04						
	2 to 16	0.00450	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	2.5E-06	0.93	5.0E+00	1.4E-03	9.0E-04						
	16 to 30	0.00450	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.1E-06	0.17	5.0E+00	1.4E-03	9.0E-04						
												Total	1.60			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	0 to 2	0.00349	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.6E-06	0.78	5.0E+00	1.4E-03	7.0E-04						
	2 to 16	0.00349	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	1.4E-06	0.14	5.0E+00	1.4E-03	7.0E-04						
	2 to 16	0.00672	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	3.7E-06	1.39	5.0E+00	1.4E-03	1.3E-03						
	16 to 30	0.00672	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.7E-06	0.26	5.0E+00	1.4E-03	1.3E-03						
												Total	2.58			4.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11 (MEIR)	0 to 2	0.00938	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	7.0E-06	2.10	5.0E+00	1.4E-03	1.9E-03						
	2 to 16	0.00938	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	3.7E-06	0.39	5.0E+00	1.4E-03	1.9E-03						
	2 to 16	0.00761	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	4.2E-06	1.58	5.0E+00	1.4E-03	1.5E-03						
	16 to 30	0.00761	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	1.9E-06	0.29	5.0E+00	1.4E-03	1.5E-03						
												Total	4.36			6.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12	0 to 2	0.00746	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.6E-06	1.67	5.0E+00	1.4E-03	1.5E-03						
	2 to 16	0.00746	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.9E-06	0.31	5.0E+00	1.4E-03	1.5E-03						
	2 to 16	0.00889	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	4.9E-06	1.84	5.0E+00	1.4E-03	1.8E-03						
	16 to 30	0.00889	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	2.2E-06	0.34	5.0E+00	1.4E-03	1.8E-03						
												Total	4.16			6.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.01060	250	4.35	230	1	70	1.00	1	3.0E-04	1.1E+00	1.7E-06	0.11	5.0E+00	1.4E-03	2.1E-03						
	16 to 41	0.01500	250	20.65	230	1	70	1.00	1	3.0E-04	1.1E+00	2.4E-06	0.73	5.0E+00	1.4E-03	3.0E-03						
												Total	0.84			5.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Combined Construction and Operational Risk - With Mitigation

Receptor No.	Age Bin	DPM Conc. (µg/m³)	Exposure Frequency (days)	Exposure Duration (years)	Inhalation Rate (L/kg-day)	Inhalation Absorption Factor	Averaging Time (years)	FAH	ASF	URF	CPF	Dose	Risk (per million)	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	REPRO	EYES
1	0 to 2	0.00065	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.9E-07	0.15	5.0E+00	1.4E-03	1.3E-04						
	2 to 16	0.00065	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.5E-07	0.03	5.0E+00	1.4E-03	1.3E-04						
	2 to 16	0.00305	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.63	5.0E+00	1.4E-03	6.1E-04						
	16 to 30	0.00305	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	7.6E-07	0.12	5.0E+00	1.4E-03	6.1E-04						
												Total	0.92			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
2	0 to 2	0.00071	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.3E-07	0.16	5.0E+00	1.4E-03	1.4E-04						
	2 to 16	0.00071	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.8E-07	0.03	5.0E+00	1.4E-03	1.4E-04						
	2 to 16	0.00378	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	2.1E-06	0.78	5.0E+00	1.4E-03	7.6E-04						
	16 to 30	0.00378	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.5E-07	0.15	5.0E+00	1.4E-03	7.6E-04						
												Total	1.12			1.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
3	0 to 2	0.00077	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.7E-07	0.17	5.0E+00	1.4E-03	1.5E-04						
	2 to 16	0.00077	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	3.0E-07	0.03	5.0E+00	1.4E-03	1.5E-04						
	2 to 16	0.00366	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	2.0E-06	0.76	5.0E+00	1.4E-03	7.3E-04						
	16 to 30	0.00366	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.2E-07	0.14	5.0E+00	1.4E-03	7.3E-04						
												Total	1.10			1.8E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
4	0 to 2	0.00080	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	6.0E-07	0.18	5.0E+00	1.4E-03	1.6E-04						
	2 to 16	0.00080	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	3.1E-07	0.03	5.0E+00	1.4E-03	1.6E-04						
	2 to 16	0.00310	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.64	5.0E+00	1.4E-03	6.2E-04						
	16 to 30	0.00310	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	7.8E-07	0.12	5.0E+00	1.4E-03	6.2E-04						
												Total	0.97			1.6E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
5	0 to 2	0.00069	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	5.2E-07	0.15	5.0E+00	1.4E-03	1.4E-04						
	2 to 16	0.00069	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.7E-07	0.03	5.0E+00	1.4E-03	1.4E-04						
	2 to 16	0.00318	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.7E-06	0.66	5.0E+00	1.4E-03	6.4E-04						
	16 to 30	0.00318	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	8.0E-07	0.12	5.0E+00	1.4E-03	6.4E-04						
												Total	0.96			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
6	0 to 2	0.00065	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	4.9E-07	0.15	5.0E+00	1.4E-03	1.3E-04						
	2 to 16	0.00065	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.5E-07	0.03	5.0E+00	1.4E-03	1.3E-04						
	2 to 16	0.00263	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.4E-06	0.54	5.0E+00	1.4E-03	5.3E-04						
	16 to 30	0.00263	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	6.6E-07	0.10	5.0E+00	1.4E-03	5.3E-04						
												Total	0.82			1.3E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
7	0 to 2	0.00038	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	2.8E-07	0.09	5.0E+00	1.4E-03	7.6E-05						
	2 to 16	0.00038	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	1.5E-07	0.02	5.0E+00	1.4E-03	7.6E-05						
	2 to 16	0.00185	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.0E-06	0.38	5.0E+00	1.4E-03	3.7E-04						
	16 to 30	0.00185	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	4.6E-07	0.07	5.0E+00	1.4E-03	3.7E-04						
												Total	0.55			8.9E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
8 (MEISC)	4 to 13	0.00098	180	4.35	572	1	70	1.00	3	3.0E-04	1.1E+00	2.8E-07	0.05	5.0E+00	1.4E-03	2.0E-04						
	4 to 13	0.00284	180	4.65	572	1	70	1.00	3	3.0E-04	1.1E+00	8.0E-07	0.17	5.0E+00	1.4E-03	5.7E-04						
												Total	0.22			7.6E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
9	0 to 2	0.00023	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	1.7E-07	0.05	5.0E+00	1.4E-03	4.6E-05						
	2 to 16	0.00023	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	9.0E-08	0.01	5.0E+00	1.4E-03	4.6E-05						
	2 to 16	0.00198	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.1E-06	0.41	5.0E+00	1.4E-03	4.0E-04						
	16 to 30	0.00198	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	5.0E-07	0.08	5.0E+00	1.4E-03	4.0E-04						
												Total	0.55			8.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
10	0 to 2	0.00048	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	3.6E-07	0.11	5.0E+00	1.4E-03	9.6E-05						
	2 to 16	0.00048	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	1.9E-07	0.02	5.0E+00	1.4E-03	9.6E-05						
	2 to 16	0.00213	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.2E-06	0.44	5.0E+00	1.4E-03	4.3E-04						
	16 to 30	0.00213	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	5.3E-07	0.08	5.0E+00	1.4E-03	4.3E-04						
												Total	0.65			1.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
11	0 to 2	0.00114	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	8.5E-07	0.26	5.0E+00	1.4E-03	2.3E-04						
	2 to 16	0.00114	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	4.5E-07	0.05	5.0E+00	1.4E-03	2.3E-04						
	2 to 16	0.00259	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	1.4E-06	0.54	5.0E+00	1.4E-03	5.2E-04						
	16 to 30	0.00259	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	6.5E-07	0.10	5.0E+00	1.4E-03	5.2E-04						
												Total	0.94			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
12 (MEIR)	0 to 2	0.00097	250	2.00	1090	1	70	1.00	10	3.0E-04	1.1E+00	7.2E-07	0.22	5.0E+00	1.4E-03	1.9E-04						
	2 to 16	0.00097	250	2.35	572	1	70	1.00	3	3.0E-04	1.1E+00	3.8E-07	0.04	5.0E+00	1.4E-03	1.9E-04						
	2 to 16	0.00394	350	11.65	572	1	70	0.72	3	3.0E-04	1.1E+00	2.2E-06	0.82	5.0E+00	1.4E-03	7.9E-04						
	16 to 30	0.00394	350	14	261	1	70	0.73	1	3.0E-04	1.1E+00	9.9E-07	0.15	5.0E+00	1.4E-03	7.9E-04						
												Total	1.22			2.0E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
13 (MEIW)	16 to 41	0.00775	250	4.35	230	1	70	1.00	1	3.0E-04	1.1E+00	1.2E-06	0.08	5.0E+00	1.4E-03	1.6E-03						
	16 to 41	0.01336	250	20.65	230	1	70	1.00	1	3.0E-04	1.1E+00	2.1E-06	0.65	5.0E+00	1.4E-03	2.7E-03						
												Total	0.73			4.2E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

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Appendix C-3a

SJVUAPCD Friant Ranch Briefing

CASE NO. S219783

IN THE SUPREME COURT OF CALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,
Plaintiffs and Appellants

v.

COUNTY OF FRESNO,
Defendant and Respondent

FRIANT RANCH, L.P.,
Real Party in Interest and Respondent

After a Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO AND REAL PARTY IN INTEREST AND RESPONDENT, FRIANT RANCH, L.P.

CATHERINE T. REDMOND (State Bar No. 226957)
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SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
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Annette.Ballatore-Williamson@valleyair.org

Counsel for San Joaquin Valley Unified Air Pollution Control District

Appendix J-1
Phase I Environmental Site Assessment

DRAFT

Leighton

PHASE I ENVIRONMENTAL SITE ASSESSMENT
MERIDIAN – WEST CAMPUS UPPER PLATEAU

ALL OR PORTIONS OF RIVERSIDE COUNTY APNS:
276-170-001, -007, 294-020-001
297-090-001, -002, -003, -005, 006, -007, -008, -009
297-080-002, -003, -004, -005

RIVERSIDE, CALIFORNIA 92508

Prepared For   **MERIDIAN PARK WEST, LLC**
1156 North Mountain Avenue
Upland, California 91786

Prepared By   **LEIGHTON CONSULTING, INC.**
10532 Acacia Street, Suite B-6
Rancho Cucamonga, California 91730

Project No. 13226.002

October 28, 2021

DRAFT

October 28, 2021

Project No. 13226.002

Meridian Park West, LLC.
1156 North Mountain Avenue
Upland, California 91786

Attention: Mr. Timothy Reeves / Mr. Adam Collier

Subject: Phase I Environmental Site Assessment
            Meridian - West Campus Upper Plateau
            Riverside, California 92508

Leighton Consulting, Inc. (Leighton) is pleased to present this draft copy of the Phase I Environmental Site Assessment for the subject property in Riverside, California, including all or portions of fifteen Riverside County Assessor Parcel Numbers (APNs): 276-170-001, -007, 294-020-001, 297-090-001, -002, -003, -005, 006, -007, -008, -009, 297-080-002, -003, -004, -005. Leighton declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and the ASTM International E1527-13.

Leighton has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. Leighton has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

If you have questions regarding this report, please contact us. We appreciate the opportunity to be of service to MERIDIAN PARK WEST, LLC.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

Robert B. Hansen
Associate Env. Geologist

Distribution: Addressee

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List of Accompanying Illustrations and Appendices

1.0 INTRODUCTION

1.1 Authorization

Leighton Consulting, Inc. (Leighton) performed a Phase I Environmental Site Assessment (ESA) for the subject property ("Site") located in Riverside, California (Site Location Map - **Figure 1**). This work was completed in general accordance with our authorized agreements with MERIDIAN PARK, WEST, LLC (Client).

1.2 Purpose

The purpose of the Phase I ESA was to identify recognized environmental conditions (RECs), historical RECs (HRECs), or controlled RECs (CRECs) in connection with the Site. The assessment was conducted in general accordance with ASTM E1527-13 guidelines (ASTM E1527-13, 2013).

According to ASTM E1527-13, RECs are defined as "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs.*" De minimis conditions are defined by ASTM 1527-13 as "*a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.*"

According to ASTM E1527-13, HRECs are defined as "*a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.*"

According to ASTM E1527-13, CRECs are defined as "*a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*"

1.3 Scope of Work

The scope of work was performed in accordance with the Leighton's proposal (TE21-157), and included the following tasks:

- A reconnaissance-level visit of the Site for evidence of existing or potential release(s) of hazardous materials and/or petroleum products;

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- A review of records (including previous environmental reports if applicable, selected governmental databases, and historical Site usage information);

- Interviews; and

- Preparation of this report presenting our findings and recommendations.

1.4 Significant Assumptions

Leighton assumes that the purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the Site so that the Client may qualify for the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) landowner liability protections as defined in CERCLA, 42 USC §9601(35)(B). Leighton also assumes that the information provided by the Client and its agents, regulatory environmental database search provider, and regulatory agencies is true and reliable.

1.5 Limitations and Exceptions

This Phase I ESA was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained during the assessment described herein. Opinions presented herein apply to property conditions existing at the time of our study, and cannot necessarily be taken to apply to property conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

This practice does not address whether requirements, in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases, or the duty to comply with legally required release reporting obligations. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the subject site that are not addressed in this practice, and that may pose risks of civil and/or criminal sanctions for non-compliance.

The Client is referred to **Appendix I** regarding important information provided by Geoprofessional Business Association (GBA) on geoenvironmental studies and reports.

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1.6   Special Terms and Conditions

The scope of work for this Phase I ESA did <u>not</u> include (unless otherwise stated): testing of electrical equipment for the presence of polychlorinated biphenyls (PCBs); collection of environmental samples from soil, air, water, soil gas, building materials, paint, or other media; assessment of natural hazards such as naturally occurring asbestos, radon gas or methane gas; assessment of the potential presence of radionuclides; or assessment of nonchemical hazards such as the potential for damage from earthquakes or floods, or the presence of endangered species or wildlife habitats. This Phase I also did not include an extensive assessment of the environmental compliance status of the Site or of any businesses operating at the Site, or a health-based risk assessment.

1.7   User Reliance

This report is for the exclusive use of MERIDIAN PARK WEST, LLC. Use of this report by any other party shall be at such party's sole risk.

2.0   SITE DESCRIPTION

2.1   Location and Legal Description

The general location of the Site is shown on attached **Figure 1** (Site Location Map). The Site consists of all or portions of the following fifteen Riverside County Assessor Parcel Numbers (APNs):

- **APN**
- 276-170-007
- 276-120-001
- 294-020-001
- 297-090-001,-002,-003,-005,-006,-007,-008,-009
- 297-080-002,-003,-004,-005

Appendix C includes a map showing the limits of the Site and proposed development. The area of the proposed development is approximately 312 acres. Client has requested an additional 100 feet around the proposed development area be included in the assessment.

The Site is part of the former March Air Force Base, and Leighton is unaware of any specific street address associated with the site.

2.2   Property and Vicinity General Characteristics

The Site includes the former March Air Force Base ordnance storage area. This ordnance area is currently occupied by 14 ordnance storage bunkers, and seven associated buildings in various states of abandonment.

The general vicinity surrounding the Site consists of single and multi-family residential developments (north, west and south), and vacant land or recently constructed (within past year) industrial warehousing, to the east. A zone of approximately 300 to 1,000 feet of undeveloped land exists between the Site and surrounding developed properties.

2.3   Current Use of the Subject Property

The Site is generally unoccupied, with the exception of a tenant which uses some of the former ordnance bunkers for the storage of fireworks. There does not appear to be any manufacturing of fireworks on the Site, and the tenant has confirmed this.

2.4   Descriptions of Structures, Roads and Other Improvements on the Property

The Site contains the former March Air Force Base ordnance storage area. This ordnance area is surrounded by approximate 10-foot high barbed-wire-topped, chain link fencing, and makes up approximately 70% of the Site. The remainder of the Site is undeveloped land. The former

ordnance area is currently occupied by 14 single-story, concrete ordnance storage bunkers (circa 1950's and 1960's), and seven other associated single-story buildings (circa late 1950's to mid 1960's) in various states of abandonment. Numerous asphalt paved roads, as well as dirt roads, exist within the ordnance area, and connect the various structures. The general layout and limits of the Site are shown on attached **Figure 2**.

The Site/proposed development area extends beyond the limits of the fenced, former ordnance area (mostly to the north and west of it) into areas which are vacant/undeveloped land. These additional Site areas contain numerous dirt roads.

The following utilities would likely provide future services to the Site:

Natural Gas:	Southern California Gas Co.
Source of Potable Water:	Western Municipal Water District
Electric:	City of Riverside
Sewage Disposal:	Western Municipal Water District
Waste Disposal:	City of Riverside/Burrtec

2.5 Current Uses of Adjoining Properties

Properties immediatley adjoining the Site are vacant and undeveloped. Another 300 to 1,000 feet beyond this are various nearby developments described in the table below. Photos of the nearby properties described below are provided in **Appendix B**, and the photo locations indicated on **Figure 2**.

Direction	Address	Nearby and Adjoining Property Use
North	N/A	Vacant undeveloped land Single family residences (**Appendix B - Photo 31**)
East	N/A	Vacant undeveloped land Recently constructed warehouse
South	N/A	Vacant undeveloped land Single family residences (**Appendix B - Photo 47**)
Southwest	19900 Grove Community Dr.	The Grove Community Church (**Appendix B - Photo 48**)
West	N/A	Vacant undeveloped land Single family residences (**Appendix B - Photo 33**)

3.0   USER PROVIDED INFORMATION

The User of this Phase I ESA is identified as MERIDIAN PARK WEST, LLC. As a part of the ASTM E1527-13 process, the User was forwarded a questionnaire regarding the property. Mr. Adam Collier of MERIDIAN PARK WEST, LLC completed the User questionnaire, a copy of which is included in **Appendix D**. A summary of information provided is discussed below.

3.1   Environmental Liens or Activity and Use Limitations (AULs)

Mr. Collier reported it is unknown if any environmental liens or AULs exist for the Site.

Leighton subcontracted NETR to research for potential environmental liens or AULs. A review of the environmental lien/AUL search report indicates none were reported associated with the Site. Copies of the lien search reports are provided in **Appendix E**.

3.2   Specialized Knowledge

Mr. Collier reports no specialized knowledge or experience related to the former operations, or current activities, on the Site.

3.3   Commonly Known or Reasonably Ascertainable Information

Mr. Collier reports no knowledge of any specific chemicals formerly used or stored on the Site, no known spills of chemicals on the Site, or any environmental cleanups which have taken place at the Site.

3.4   Valuation Reduction for Environmental Issues

Mr. Collier did not indicate knowledge of any purchase price for the property or potential valuation adjustments related to known environmental impacts, and reports the acquisition terms are based on a prior agreement from 2001.

3.5   Owner, Property Manager, and Occupant Information

The Phase I User identified March Joint Powers Authority (MJPA) as the property owner. MJPA manages the Site, and currently leases portions of it to a fireworks company for use as storage of finished firework products.

The Client was forwarded a copy of the Phase I Owner/Site Manager Questionnaire. Information received re. this questionnaire is discussed below in **Section 6.0**.

3.6   Reason for Performing Phase I ESA

According to the client/User, the Phase I ESA is being completed prior to purchase of the Site.

3.7   Other

Mr. Collier did not sign the User questionnaire. This data gap is not considered significant in consideration of all other information obtained during the assessment.

No other significant user information was provided.

4.0   RECORDS REVIEW

4.1   Physical Setting Source(s)

Leighton reviewed pertinent maps, readily available literature and databases for information on the physiography and hydrogeology of the Site. A summary of this information is presented in the following subsections.

4.1.1   Topography

The Site is predominantly (approximately 70% or greater) located in Section 16 of Township 03 South, Range 04 West, relative to the San Bernardino Baseline and Meridian. The remaining portions of the Site are found in Section 17 (western-most portion) and Section 21 (southern-most portion).

The Site is located on the United States Geological Survey (USGS) Riverside East, 7.5-Minute Topographic Quadrangle dated 2012 (USGS, 2012). The predominant overall downward slope of the Site vicinity is northwest to north. The Site itself is mounded in its central portions, and slopes downward in several directions. The Site elevations range from approximately 1,620 to 1,760 feet above mean sea level (msl).

4.1.2   Surface Water

No surface water bodies were observed on the Site. The closest large surface water body (i.e. ocean, lake, river, creek, reservoir, etc.) to the Site is the Perris Reservoir, approximately 6.5 miles to the southeast.

The average annual precipitation in the general Site vicinity (reporting station: Riverside Fire Station 3, CA) is approximately 10.33 inches (NOAA, 2021).

4.1.3   Shallow Soils

Shallow soils encountered during a separate geotechnical investigation are reported to consist of approximately two to seven feet of topsoil (comprised of silty sand and silty clayey sand) underlain by granitic bedrock of varying degrees of weathering (Leighton, 2021).

4.1.4   Geology / Hydrogeology (Groundwater Depth and Flow Direction)

The Site is located within a prominent natural geomorphic province in southwestern California known as the Peninsular Ranges. This province is characterized by steep, elongated ranges and valleys that trend northwestward. More specifically, the Site is located within the relatively stable Perris Block.

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The Perris Block, approximately 20 miles by 50 miles in extent, is bounded by the San Jacinto Fault Zone to the northeast, the Elsinore Fault Zone to the southwest. The Perris Block has had a complex tectonic history, apparently undergoing relative vertical land-movements of several thousand feet in response to movement on the Elsinore and San Jacinto Fault Zones. Thin sedimentary and volcanic materials locally mantle crystalline bedrock, consisting of the Val Verde Tonalite (Kvt) and lesser amounts of Cretaceous granitic dikes (Kg).

The Site is located at the eastern edge of the San Jacinto River Groundwater Basin, adjoining just west of the Perris North groundwater subbasin. Existing beneficial uses designated in this subbasin include: municipal, agricultural, industrial and process supply; however, the Site appears to be just outside (west of) this subbasin (SARWQCB, 2019).

A separate geotechnical investigation included six soil borings drill at the Site to mostly depths of 40 to 50 feet. Of the six soil borings drilled, only one encountered groundwater. Groundwater was encountered at a depth of approximately 48 feet bgs, in the underlying bedrock (Leighton, 2021). Based on topography of the Site, the flow direction of groundwater is estimated to be west to northwest beneath most of the Site, with some flow to the east beneath the eastern-most portions of the Site.

4.2   Standard Environmental Record Sources

Leighton contracted a search of selected environmental databases. The search was completed by Environmental Data Resources, Inc. (EDR). The search was done in general accordance with requirements of ASTM E1527-13. A copy of the database search report is provided in **Appendix F**; however, a summary of the results is discussed below.

4.2.1   Subject Property

Listings found pertaining to the Site are summarized as follows:

SITE LISTINGS	
Listing Name	**Address / Location**
March Air Force Base/ March Air Force Base (CLOSED)	**Regional**
The Site is listed in various environmental databases, within in the context of a larger regional listing for the former March Air Force Base. Databases in which the former March Air Force Base are listed include: DOD, NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST CONTROLS, ROD and PRP. **It is our judgement that these listings may or may not be connected to the specific Site, and that assessment of the Site via other sources is necessary**.	

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4.2.2 Offsite

Provided below is a brief summary of some of the more notable off-site database listings, notable either due to their proximity to the Site, and/or nature of their listing:

NOTABLE LISTINGS	
Listing Name	**Address / Location**
Mills Tank D	**14255 Vista Grande, Riverside**
This facility is plotted adjoining north of the Site, and is believed to be the large above-ground water storage tank adjoining north of the Site. It is listed in the RCRA Nongen/NLR database in connection with the Eastern Municipal Water District. **It is our judgement this listing does not indicate evidence of a likely REC on the Site**.	
9th Street Italian	**19638 Webster Road**
This facility is plotted a few hundred feet west of the Site in a residential neighborhood. It is listed in the EDR HIST AUTO database, and indicated as a gasoline station (in 2013 & 2014). It appears highly unlikely a gas station existed here, and the listing may be mis-plotted, or a home address used in connection with a business elsewhere. **It is our judgment this listing does not indicate evidence of a likely REC on the Site**.	
Paul Small	**14150 Barton Street**
This facility is approximately 900 feet north of the Site in a residential neighborhood. It is listed in the RCRA NonGen/NLR database. **It is our judgment this listing does not indicate evidence of a likely REC on the Site**.	
Benjamin Franklin Elementary School	**19661 Orange Terrace Parkway**
This facility is a public school approximately 0.5 miles southwest of the Site. It is listed in the ENVIROSTOR, SCH and CERS databases. **It is our judgment these listings do not indicate evidence of a likely REC on the Site**.	
March USAR	**3,545 Acres, E. of Riverside**
This facility is plotted approximately 0.7 miles east of the Site, and has a listing in the ENVIROSTOR database. The case is reported as a military evaluation requiring no further action. The listing provides very little specific data on its location, or nature of the listing. **It is our judgment this listing, by itself, does not indicate evidence of a likely REC on the Site**.	

No other database listings of potential concern were reported. A review of reported "Orphan" facilities (facilities with locations that cannot reliably be plotted) also indicated no concerns. **In summary, the database search report resulted in _no_ On- or Off-Site**

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listings with evidence they have likely created a REC on the Site. A copy of the database search report is provided in **Appendix F**.

4.2.3   Regulatory Agency Contacts

Leighton staff researched other reasonably ascertainable, local and regional regulatory agency records. The results are summarized below:

Riverside County Department of Environmental Health (RCDEH)
The RCDEH will not process records search requests with only APNs (i.e. street address needed). This data gap is judged to have a low likelihood of significance based on all other data collected during this assessment.
State of California Dept. of Toxic Substances Control (DTSC)
A request for a records search was made to the DTSC, Cypress and Chatsworth offices, under the current Site APNs. The Chastworth office responded by deferring to the Cypress office. The Cypress office indicated no records were found for the Site (see **Appendix G**).
State of California Regional Water Quality Control Board, Santa Ana Region (SARWQCB)
The SARWQCB will not process records search requests with only APNs (i.e. street address needed). This data gap is judged to have a low likelihood of significance based on all other data collected during this assessment.
Envirostor - DTSC Envirostor Database
A review of the DTSC Envirostor database revealed no listings on the Site, or within a one-mile radius, with the exception of: • Benjamin Franklin School (19661 Orange Terrace Parkway) – This listed school facility is not considered evidence of a likely REC on the Site.
GeoTracker - State of California Water Resources Control Board GeoTracker Database

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The State of California Water Resources Control Board maintains the GeoTracker database which includes various facilities with current or former environmental investigations. Types of listed cases include: leaking USTs, permitted USTs, other cleanup program cases, military cleanup cases, land disposal cases, and confined animal facilities.

A review of the GeoTracker database revealed <u>no</u> listings for the Site, and two nearby listings within 0.5 miles of the Site (GeoTracker, 2021). These two closest listings are summarized/discussed below:

- <u>Site 25 - March Air Force Base – US Air Force, former March AFB – OU-2-Site 25 Munitions Burial Site (DOD100288200) (North of Iris Canyon Rd and West of Indigo Point, Riverside, CA 92518)</u> - This listing is for a military cleanup case which was closed on May 12, 2004. It is plotted approximately 1,500 feet southeast of the Site, but is judged to be essentially adjoining the Site to the southeast (see **Figure 2**).

This facility is reported to be a 33-acre former military area used in the past for open air detonations and burning of munitions. Three areas with shallow trenches were used to bury munitions residue after destruction. Reported soil contaminants include munition residues such as: nickel, 1,3,5-trinitrobenzene, nitroglycerin, benzo(a)pyrene, RDX and 1,1-dichloroethene. Groundwater is reported to have been within the weathered bedrock at 15 to 45 feet deep. The USAF was concerned with soil contaminants causing groundwater impacts, so in 1996, excavated 3,000 cubic yards of non–hazardous waste and soil from the trenches, and disposed of them in an engineered waste cell at Site 6 (USAF, 2004). This engineered waste landfill (Site 6) is approximately 1.5 miles south-southeast of the Site. The approximate primary area of soil remediation within Site 25 is shown on attached **Figure 2**, and is roughly 600 feet southeast of the Site.

Confirmation soil samples collected after the removal action at Site 25 reported detections of residual dioxins, 4,4'-DDT, and 4,4,'-DDE. The dioxin TCDD equivalent concentration for the maximum sample with dioxin and furans is reported as 2×10^{-6}, less than the Risk Based Preliminary Remediation Goal (RPRG) of 3.9×10^{-6} mg/kg. The detected 4,4'-DDT and 4,4'-DDE are reported also be less than the RBPRGs. No VOCs, semi-VOCs, chlorinated herbicides, PCBs, PAHs, organophosphorus pesticides, or nitroaromatics/nitroamines were detected in the confirmation soil samples. The residual organic compounds in the soil, after the removal actions, are reported to not pose a risk above the range identified in the NCP (National Contingency Plan) to residential receptors based on the RPRGs. Reported potential future land uses for Site 25 include: Business Park (preferred) and Residential or Stephens Kangaroo Rat Conservation (alternative uses) (USAF, 2004).

Focused groundwater monitoring was completed at Site 25, and no contaminants of concern were reported to have been detected. Groundwater at Site 25 is reported to flow to the east (i.e. away from subject Site) (USAF, 2004).

- Site 3 - March Air Force Base – US Air Force, former March AFB – OU-2-Site 3 Landfill No. 5 (DOD100278800) Riverside, CA 92518 - This listing is for a military cleanup case which was closed on February 3, 1997. It is plotted approximately 1,800 feet east of the Site, but is estimated to be as close as approximately 1,000 feet east of the Site.

  This facility is a reported former 23-acre landfill located south of Cactus Ave. and west of Plummer Road. The landfill was used from 1954 through 1974 for household and dumpster wastes, construction debris and military waste from the base. Contaminants reported in the waste include: VOCs, pesticides, PCBs, PAHs and munitions residues. The USAF was concerned with soil contaminants causing groundwater impacts, so excavated 223,200 cubic yards of landfilled materials and soil, and disposed of them in an engineered waste cell (Site 6) in 1995 and 1996 (USAF, 2004). This engineered waste landfill (Site 6) is approximately 1.5 miles south-southeast of the subject Site.

Soil confirmation samples collected after the removal action at Site 3 reported detections of residual PAHs and one PCB in surface/near surface soils, all at concentrations generally below RPRGs. No VOCs, semi-VOCs, chlorinated herbicides, PCBs, PAHs, organophosphorus pesticides, or nitroaromatics/nitroamines are reported to have been detected in the confirmation soil samples. In summary, the USAF reports that Site 3 no longer poses a threat to human health above the manageable risk range identified in the NCP, and no further action was recommended. Reported potential future land uses for Site 3 include Business Park (preferred) and Public Facilities/Recreational or Stephens Kangaroo Rat Conservation (alternative uses) (USAF, 2004).

Groundwater is reported beneath Site 3 at depths of 15 to 25 feet, with a flow direction to the northeast (i.e. away from Site). Groundwater sampling conducted at Site 3 after the removal action is reported to have shown no detectable concentrations of the contaminants that were detected prior to the removal action. The removal actions at Site 3 are reported to have eliminated the potential for migration of contaminants to groundwater (USAF, 2004).

California Department of Conservation, Geologic Energy Management Division (CalGEM)

The CalGEM Well Finder database was reviewed on-line to search for any indication of the presence of an active or abandoned oil or gas wells, on or within the vicinity of the Site**.** The review indicated <u>no</u> wells within at least a 1.0 mile radius of the Site (CalGEM, 2021).

National Pipeline Mapping System (NPMS)

A review of the NPMS pipeline database revealed one gas transmission pipeline on the Site itself. The pipeline trends roughly east-west through the northern portion of the Site/proposed development area. The approximate pipeline location is shown on attached **Figure 2**. The pipeline is identified with the following information:

- Southern California Gas Co, Transmission, Natural Gas, Active (filled), Pipeline ID 117

Several attempts were made (via telephone and email) to contact the Southern California Gas Co. to obtain further information on this pipeline, but no responses were received. It is our judgement there is a low likelihood that current operations of this natural gas pipeline has impacted the Site with a REC; however, no information could be obtained regarding historical operations.

The review of the pipeline database revealed no hazardous liquid pipelines, no pipeline incidents (gas), accidents (liquid), or other gas pipelines, within approximately one mile of the Site (NPMS, 2021).

South Coast Air Quality Management District (SCAQMD)

An on-line records search was completed using the SCAQMD F.I.N.D database. The database reported <u>no</u> records associated with the Site or immediately adjoining properties (SCAQMD, 2021).

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Copies of the various local and regional agency records requests and responses are provided in **Appendix G**.

4.2.4 Radon

Radon is not regulated within the State of California. Nonetheless, the California Department of Health Services (CDPH) and the USEPA both recommend a threshold of 4 picocuries per liter (pCi/L) above which certain precautions be taken to mitigate radon buildup in structures.

The Site is reported to be located in Zone 2, which has a likely predicted average indoor radon screening levels between 2 and 4 pCi/L.

4.2.5 Other Reports

No prior environmental reports associated with the Site were provided by the Client for review, or found during this assessment.

4.2.6 Vapor Encroachment

A vapor encroachment screening was completed in general accordance with ASTM Standard Guide E2600-10. Our modified Area of Concern (AOC) is defined as follows:

Direction Relative to Site	AOC - VOC Vapors	AOC - Petroleum HC Vapors
Up Gradient Source	1,760 feet	520 feet
Cross Gradient Source	365 feet	165 feet
Down Gradient Source	100 feet	100 feet

Based on various research discussed within this report, no facilities with reported releases of VOCs were identified within the modified AOCs discussed above, with the following possible exception:

- o Site 25 - US Air Force, former March AFB – OU-2-Site 25 Munitions Burial Site - This facility is located adjoining southeast of the Site, and was previously discussed above in 4.2.3 (Geotracker). It is a former munitions burial site. In 1997, the USAF excavated 3,000 cubic yards of non–hazardous waste and soil from this facility and disposed of them in an engineered waste landfill (Site 6) 1.5 miles south-southeast of the subject Site.

    Reported soil contaminants include munition residues such as: nickel, 1,3,5-trinitrobenzene, nitroglycerin, benzo(a)pyrene, RDX and 1,1-dichloroethene. Confirmation soil samples collected in 1997, after the removal action at Site 25, reported detections of residual dioxins, 4,4'-DDT, and 4,4,'-DDE. No VOCs, semi-VOCs, chlorinated herbicides, PCBs, PAHs, organophosphorus pesticides,

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or nitroaromatics/nitroamines were reported to have been detected in the confirmation soil samples.

No evidence was found to indicate soil <u>gas</u> samples were collected for VOCs during or subsequent to this 1997 removal action. This is not unexpected given that vapor intrusion was not a common concern in 1997. A review of the USAF documents related to the adjoining Site 25 indicate that groundwater beneath the former burial area was reported to flow to the east, making it a down gradient source from the subject Site. The Site 25 documents also indicate the main remediation areas (3 areas) were 600 feet from the Site, and greater than 1,000 feet from the closest proposed building for the subject Site (see **Figure 2** and Site Development Plan in **Appendix C**). **Despite the absence of known soil gas data from Site 25, it is our judgment it is not a VEC for the subject Site based on the reported groundwater flow direction (east), and the distance between the subject Site and the reported Site 25 remediation area**.

4.3   Historical Use Information on the Property

Following is a summary of our review of records regarding historical usage of the Site and adjoining properties, as this information pertains to the potential for environmental concerns.

Info Type	Years	Source	Summary of Review
Topo Maps	1901 1942 1947 1953 1967 1980 2012	EDR	• **1901-1947**: Maps show no development on the Site except a dirt road in the western and southern portions. Allesandro Blvd. is visible north of Site. • **1953**: Map shows a complex of curvy roads in the center of the Site (i.e. the oldest configuration of ordnance storage bunkers). A pipeline is indicated along the present day alignment of the So. Cal Gas pipeline (transecting the Site roughly E-W). • **1967-2021**: Maps show the Site roads largely in their present day configuration, with increased surrounding development by single family residences over this period.

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Aerial Photos	1931 1938 1949 1953 ***1962*** 1967 ***1976*** 1978 1985 1989 1994 2002 2006 2009 2012 2016	EDR ***UCSB***	• **1931-38**: The 1931 photo only partially covers the western portion of Site. Photos show no development on Site, just a few dirt roads transecting the Site. Limited dry farming is visible at the northern, western and southern edges of the Site. • **1949:** Photo shows a complex of curvy roads and ordnance storage bunkers in the center of Site. Several small buildings are also visible near/between some of the bunkers. Two cleared/disturbed areas are visible near: 1) the northeastern most bunkers (**Figure 3 - 1949: Cleared Area 1**) and 2) near the southern most bunkers (**Figure 3 - 1949-1967: Cleared Area 2**). While the above-mentioned bunkers and building are no longer present, the curvy roads remain to present day as a reference. Additionally, a cleared pathway is visible along the present day alignment of the Southern California Gas pipeline transecting the northern portion of the Site (roughly E-W), indicating this pipeline may have existed at this time, or is under construction. The Site appears to be accessed from two main roads; one entering from the east, and one entering from the south. • **1953:** Photo is similar to 1949 photo, but another road-line of ordnance storage bunkers have been added west of the original ones (i.e. the eastern-most road-line of present day bunkers). Two new buildings/storage areas are noted at: 1) northwestern end of the ordnance bunkers (**Figure 3 - 1953: Bldg/Stor Area 1**), and 2) near the southern ordinance bunkers (**Figure 3 - 1953: Bldg/Stor Area 2**). • **1962-1967**: Seven buildings have been constructed in in NE quadrant of the Site (i.e. present day buildings), and another road-line of ordnance bunkers have been installed further west of prior ones (i.e. present day western most line of bunkers). The Site appears similar to the present day configuration, except the oldest ordnance bunkers in center of Site are still present. Several of the older buildings mentioned above (from 1940's-1950's) are now gone. An unknown U-shaped feature with a connecting access road is first visible near the northern Site edge **(Figure 3 – 1967-89: U-Shaped Feature**). This feature appears to be a concrete pad, not a building. By 1967, the southern access road to the Site area no longer appears used, while the eastern access road remains. Adjoining southeast of Site is an area of disturbed soil believed to be the munitions burial site (Site 25) which is discussed above in Section 4.2.3 (Geotracker). • **1976-1989**: The original (late 1940's) ordnance bunkers in the center of the Site have been removed by 1976 (but curvy roads remain at present day). The Site now appears largely in its present day configuration. The So. Cal Gas pipeline alignment remains visible transecting through northern portion of Site (E-W). The unknown U-shaped feature near

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			northern Site edge is visible and appears to have disturbance/activity mostly around its southern, western and northern most sides. The munitions burial site (Site 25) remains visible adjoining southeast of Site. By 1985, the above-ground water tank north of the Site is visible, and some of the single family residences north of the Site have been constructed. • **1994:** The Site appears in its present- day configuration and similar to prior photos (i.e. 1976-1989). Single family residential developments are now visible south of Site. The unknown U-shaped feature near northern Site edge is visible, but no longer appears used. • **2002**: Site appears in its present-day configuration. Surrounding properties to north, west and south are developed with present day single-family residences. Adjoining southeast munitions burial area (Site 25) appears to be re-vegetated (i.e. remediation completed). • **2006-2016**: Site appears in its present-day configuration. A fireworks manufacturer utilizes some of the ordnance bunkers for storage of product at present day (based on site recon only). Surrounding properties to north, west and south are developed with the present-day single-family residences. Grove Community church has been constructed adjoining southwest of site.
Fire Ins Maps	N/A	EDR	No coverage reported for Site.
City Direct-ories	1921-2007	EDR	The city directory search revealed no listings associated with the Site.

Summary of Historical Review

1930's - The Site was undeveloped and unused during the 1930's, with the exception of some dry farming along the northern, western and southern edges.

1940's - By 1949, a series of ordnance bunkers, and a few small nearby buildings had been constructed along some curvy roads in the center of the Site (note: curvy roads are still present, but these original bunkers and buildings are not). A few cleared/disturbed areas also existed in this original central ordnance bunker area.

1950's & 1960's - In the 1950's, an additional road-line of bunkers was installed west of the original bunkers, as well as a few small nearby buildings. In the early 1960's, a second road-line of bunkers was added further to the west. Also in the early 1960's, seven buildings (that exist at present day) were constructed in the NE quadrant of the Site, and older buildings (from 1940's & 50's) had been removed.

1970's - By 1976, the original historical ordnance bunkers in the central portion of the Site had been removed, and the Site appeared largely in its present-day configuration.

1980's- Present – From at least 1976 through present, the Site has remained in its present-day config-uration, with increasing residential development occurring to the north, west and south of the Site. Based on the reviewed historical sources, it is unknown when the ordinance complex was no longer used by the military; however, March Air Force Base was closed in 1996 (and converted to March Air Reserve Base).

From at least 1949 to present, a pipeline alignment is visible in the northern portion of the Site (transecting roughly E-W). This pipeline is currently operated by the Southern California Gas Company. From at least 1962 to 1989, an unknown U-shaped feature (likely concrete pad) and associated access road have existed near the northern edge of the Site (see **Figure 3**).

Based on the historical Site usage review, the following potential environmental concern areas are noted:

- **Building Hazardous Materials** - The present day ordnance bunkers and buildings on the Site are approximately 60 years old, and may have asbestos containing building materials, lead based paint, and other universal rule wastes. In regards to the ordnance bunkers only, they appear constructed entirely of concrete, and the potential for asbestos is limited (lead paint remains a concern). A hazardous materials survey is recommend for all existing buildings and bunkers.

- **U-Shaped Feature** - The unknown U-shaped feature in the northern portion of the Site, actively used from approximately 1962 to 1989, is a concern (see **Figure 3**). Limited shallow soil sampling (0-5 feet bgs) focused around it southern, western and northern edges is recommended.

- **Historical Storage/Cleared Areas** - Various historical areas which were cleared, used for storage, or had former buildings, existed during the late 1940's and 1950's at several locations on the Site (see **Figure 3**). These areas are a concern, and limited shallow soil sampling (0-5 feet bgs) is recommended.

- **Site 25 (former Munitions Burial Area) -** A former munitions burial area existed adjoining southeast of the Site, from at least 1967 to approximately 2002. Based on information provided in USAF documents (discussed above in Section 4.2.3 -Geotracker), it is our judgement there is a low likelihood this facility has impacted the Site with a REC.

Copies of selected documents used to assess historical Site and adjoining property usages (i.e. topographic maps, aerial photos, city directories, etc.) are provided in **Appendix H**.

5.0   SITE RECONNAISSANCE

5.1   Methodology and Limiting Conditions

On August 5, 2021, a representative of Leighton conducted a reconnaissance–level assessment of the Site. The reconnaissance consisted of observing and documenting existing conditions on the Site and adjoining properties.

Photographs of the Site are provided in **Appendix B**. The locations, orientations and designations of the photographs are shown on **Figure 2**.

5.2   General Property Setting

The Site is generally located south of Camino Del Sol Avenue, on either side (east and west) of Vista Grande Drive, in Riverside, California. The Site consists of a former military ordnance storage facility along with some undeveloped land, and is surrounded by a buffer of undeveloped land, followed by single family residences to the North, West and South of the Site.   Land to the east of the Site (nearby but not adjoining) is developed, or is being developed, with commercial and industrial projects.

5.3   Exterior and Interior Observations

Seven buildings and 14 earthen-covered, concrete ordinance storage bunkers are present on the Site (see **Figure 2**).

High security fencing (see **Appendix B – Photo 49**) surrounds the ordnance bunkers and six of the seven buildings mentioned above. The seventh building is just outside the security fencing, but is related to the former military operations (former housing and associated guard dog kennels). The seven buildings are labelled as **Buildings 1-7** on attached **Figure 2**.

The seven buildings appear to have been used for various former military/industrial purposes, and access to a few of the buildings was highly limited by: Building 1 - a collapsed roof (no access at all), Building 4 - locked/rusted doors (most of interior not accessible), and Building 3 - large amounts flat cardboard stored.

Pyro Spectaculars, Inc., a fireworks manufacturer, is a tenant which uses the ordnance bunkers and one of the buildings (Building 3) for storage. All other buildings appear unused and abandoned long ago (to the extent they could be accessed/viewed). Other developments on the Site include a large above-ground water tower north of Building 2 (**Appendix B** – **Photo 50**), and a small water cooling tower between Buildings 1 & 2 (**Appendix B** – **Photo 10**) (see **Figure 2**).

5.3.1   Hazardous Substances, Drums, and Other Chemical Containers

Several small containers of used motor oil were observed in Building 3 (**Appendix B – Photo nos. 5 & 6**). The containers are on a concrete surface noted to be in fair condition, with no evidence of leakage, spillage or staining.

A flammable materials cabinet was also present in Building 3. The cabinet contained six portable diesel fuel cans (**Appendix B – Photo 7**). No evidence of leakage, spillage or staining was observed beneath the cabinet.

The fourteen observed ordnance bunkers are themselves storage areas for likely hazardous substances, both currently (i.e. fireworks products) and formerly (military ordnances). No evidence of floor staining was observed in the bunkers, and the concrete flooring was noted to be in excellent condition. The bunkers are constructed of concrete. Attached **Photos nos. 14-18** and **46** (**Appendix B**) show various views of the ordnance bunkers.   The western most road-line of bunkers each appear to contain a smaller concrete vault within the interior of each bunker, while the eastern most road-line do not. These bunkers were constructed at differing times (see Section 4.3, Summary of Historical Review, 1950's-1960's).

5.3.2   Storage Tanks

Three small tanks (approximately 40 to 50 gallons) containing an unknown refined petroleum product were observed attached to the interior walls of Building 2 (**Appendix B – Photo nos. 28 & 30**). The tanks are connected to various process piping within the building interior (see **Appendix B**- **Photo nos. 28-30**). Some limited oil staining was observed on the nearby concrete floor, however, observations were limited by the large quantities of bird feces. The amount of piping and equipment, and evidence of liquid processes, is a concern, and assessment of the soils beneath this building is recommended.

An above ground tank elevated on a tower also exists at the Site adjoining north of Building 2 (**Appendix B – Photo 50**). This is assumed to have been a water tower, and is not considered a likely environmental concern.

A potential UST vent line was noted on the exterior northern wall of Building 1 (**Appendix B – Photo 43**). Further investigation of this feature is recommended via a geophysical survey.

No other evidence of underground or aboveground storage tanks was observed on the Site.

5.3.3   Polychlorinated Biphenyls (PCBs)

Evidence of potential PCBs was noted near features and locations as follows:

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- A fenced electrical substation-type enclosure is located on the east side of Building 2, with empty transformer cans on the ground, indicating possible scavenging of metals (**Appendix B** - **Photo nos. 44, 11 & 9**).

- A fenced electrical substation-type enclosure is also located on the east side of Building 4, with empty transformer cans on the ground, indicating possible scavenging of metals (**Appendix B** - **Photo 45**).

- At least many dozens of pole-mounted transformers were observed scattered throughout the Site. No specific evidence of staining was noted on the soil near selected poles which were observed. **Photo nos. 12 & 13** in **Appendix B** show a typical pole with mounted transformers and the nearby soil surface.

- Two pad-mounted transformers are located west of Building 5. Building 5 appears to have been the main electrical equipment hub for the ordnance complex. One of the pad-mounted transformers on the west side of Building 5 was observed to be leaking, and stained soil was observed around the base of the transformer (**Appendix B – Photo 24**). The interior of Building 5 also contained large scale electrical distribution equipment which appears to be many decades old (**Appendix B – Photo 23**).

- Two addition enclosures were noted to have pad-mounted transformers, generally near the northeastern-most ordnance storage bunkers. Both enclosures showed evidence of metal scavenging, but no specific staining on the adjoining soil.

Shallow soil sampling for PCBs is recommended near all of the above-mentioned features. In the interior of Building 5, this sampling may be substituted with wipe samples of the concrete flooring near the electrical switching equipment. Selected soil samples that are analyzed for PCBs should also be analyzed for TPH and Title 22 Metals.

PCBs were once used as industrial chemicals whose high stability contributed to both their commercial usefulness and their long-term deleterious environmental and health effects. PCBs can be present in coolants or lubricating oils used in older electrical transformers, hydraulic systems, and other similar equipment. In 1979, the USEPA generally prohibited the domestic manufacture of PCBs in electrical capacitors, electrical transformers, vacuum pumps, hydraulic pumps, and gas turbines.

5.3.4   Waste Disposal

No obvious visual evidence of hazardous waste disposal was observed during the Site reconnaissance.

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5.3.5   Dumping

No obvious visual evidence of dumping of chemicals, hazardous substances or petroleum products was observed at the Site.

Minor quantities of inert refuse were observed in several of the buildings on the Site.

5.3.6   Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

No obvious visual evidence of pits, ponds, lagoons, septic systems, wastewater, cisterns or sumps was observed on the Site. Based on the former usages of Building 6 (apparent guard station) and Building 7 (housing and guard dog kennels), the presence of septic systems connected to these buildings is moderately likely.

A large storm drain was observed in the central portion of the Site (**Appendix B – Photo 40**). No evidence of staining or etching was noted on the adjoining concrete. The drain is assumed to be plumbed to a storm sewer.

5.3.7   Pesticide Use

No evidence of current or past pesticide use was observed at the Site.

5.3.8   Staining, Discolored Soils, Corrosion

As mentioned above in section 5.3.3, some staining was observed on the soil at the based of a pad-mounted electrical transformer west of Building 5. The staining appears to be emanating from the transformer (**Appendix B – Photo 24**).

Staining of the concrete floor was observed in Building 2 **(Appendix B – Photos 29 & 30**), and in the west portion of Building 4 which contains refrigeration machinery (**Appendix B – Photo 21**). All of the above-mentioned staining was on concrete flooring which appeared to be in fair condition.

5.3.9   Stressed Vegetation

No stressed vegetation was observed on the Site.

5.3.10   Unusual Odors

No unusual chemical odors were detected at the Site.

5.3.11   Onsite Wells

No evidence of wells was observed at the Site.

5.3.12 Other

A water cooling tower was observed between Building 1 and Building 2 (**Appendix B – Photo 10**), with evidence of subsurface piping likely leading to one or both of the nearby buildings. Older water treatment chemicals are a concern, and limited shallow soil sampling around the base of this cooling tower is recommended, especially in regards to metals, including hexavalent chromium. Further assessment of the piping run related to this feature is also recommended (via geophysical survey). The cooling tower itself may contain asbestos containing materials, and should be sampled in this regard.

A decomposed granite stockpile is located on the western portion of the Site. No staining or odors were observed at this material (**Appendix B – Photo no. 33**). The source of this stockpile is unknown. Limited sampling of this stockpile is recommended before the material is disturbed or used.

Numerous treated wood utility poles exist at the Site. A specific count was not completed; however, it is likely more than 200. Some of the poles appear to be used for communications (attenae), while most are for facility lighting and electrical distribution. Some of the electrical distribution poles contain small pole-mounted transformers as indicated previously in subsection 5.3.3.

A small steel and concrete bunker was observed built into a hillside adjoining southeast of the Site (**Appendix B – Photo nos. 34 & 35**). This is suspected to be small bunker (safety bunker?) for the area further southwest (munitions burial area – Site 25) at which former open air detonations and munitions were reported (see section 4.2.3 - Geotracker).

No other obvious visual evidence of potential environmental concerns was observed on the Site during the reconnaissance.

5.3.13 Non Scope – Asbestos, Lead Based Paint, Mold

No actual sampling or testing for asbestos materials was completed. Only an asbestos survey can confirm the presence or absence of asbestos containing materials. Based on the age of the various structures as the Site, the following potentials for asbestos containing materials are summarized:

- Buildings 1-7, entire buildings - moderate to high likelihood
- Buildings 2 & 4, interior piping - moderate to high likelihood
- Between Buildings 1 & 2, water cooling tower - high likelihood

It is noted that most of Building 4 (locked/rusted doors), and all of Building 1 (collapsed roof) was not accessible.

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No actual sampling or testing for lead-based paint or other high lead materials was completed. Only a lead survey can confirm the presence or absence of lead containing materials. Based on the age of the various features as the Site, the following potentials for lead based paint are summarized:

- Buildings 1-7, entire buildings - moderate to high likelihood
- Water Tower - moderate to high likelihood
- Ordnance bunkers - moderate likelihood
- Traffic bollards - moderate likelihood

It is noted that most of Building 4 (locked/rusted doors), and all of Building 1 (collapsed roof) was not accessible.

No actual mold sampling, testing or laboratory analyses were completed during this assessment. Due to the abandoned and partially collapsed nature of several of the buildings, there is a moderate likelihood of mold. Only a mold survey can confirm the presence or absence of mold. It is our understanding that the buildings are not generally occupied currently, or planned to be in the future.

The present-day ordnance bunkers and buildings on the Site are approximately 60 years old, and may have asbestos containing building materials, lead based paint, and other universal rule wastes. In regards to the ordnance bunkers only, they appear constructed entirely of concrete, and the potential for asbestos is limited (lead paint remains a concern). A hazardous materials survey is recommend for all existing buildings and ammunition bunkers.

Attached **Photos 1-50** (**Appendix B**) show various additional views/perspectives of the Site.

In summary, the Site reconnaissance revealed the following potential environmental concerns (i.e. potential RECs) for which additional assessment is recommended:

- **Potential UST Vent Line** - A potential UST vent line was observed on the exterior northern wall of Building 1 (**Appendix B – Photo 43**). Further investigation of this feature is recommended via a geophysical survey.

- **Water Cooling Tower** - A water cooling tower was observed between Buildings 1 and 2 (**Appendix B – Photo 10**) with evidence of subsurface piping likely leading to one or both of these nearby buildings. Older water treatment chemicals are a concern, and limited shallow soil sampling around the base of this tower recommended. Further assessment of the piping run related to this feature is recommended (via geophysical survey). The cooling tower itself may contain asbestos containing materials, and should be sampled in this regard.

- **Building 2** – The interior of Building 2 contained three tanks of what appeared to be petroleum liquids and a large amount of process piping (both above the floor and in concrete-lined subgrade trenches) indicating a manufacturing processes involving liquids. The adjoining water cooling tower may have also been connected to this building. The amount of

manufacturing piping and equipment, and evidence of liquid processes, is a concern, and assessment of the soils beneath this building is recommended.

- **Electrical Transformers / Equipment** – Fenced electrical substation-type enclosures exist east of Buildings 2 and 4, with empty electrical transformer cans on the ground, indicating they may have been scavenging for metals (**Appendix B - Photo nos. 44, 11, 9, 45**).   Two pad-mounted electrical transformers exist west of Building 5, with evidence of oil leakage onto the soil adjoining one of them (**Appendix B – Photo 24**). The interior of Building 5 also contains large scale electrical distribution equipment which appears many decades old (**Appendix B – Photo 23**).   Two additional pad-mounted transformer enclosures exist generally near the northeastern most ordnance storage bunkers, both with signs of metal scavenging, but no obvious evidence of nearby oil staining. Shallow soil sampling for PCBs is recommended near all of the above-mentioned features. In the interior of Building 5, this sampling may be substituted with wipe samples of the concrete flooring near the electrical switching equipment. Selected soil samples analyzed for PCBs should also analyzed for TPH and Title 22 Metals.

- **Undocumented Stockpile** - A decomposed granite stockpile is located on the western portion of the Site. No staining or odors were observed (**Appendix B – Photo no. 33**). The source of this stockpile is unknown. Limited sampling of this stockpile is recommended before the materials is disturbed or used.

- **Wood Poles** - Numerous treated wood utility poles exist at the Site. A specific count was not completed; however, it is likely more than 200. Some of the poles appear to be used for communications (attenae), while most are for facility lighting and electrical distribution. Some of the electrical distribution poles contain small pole-mounted transformers. An inventory of the poles should be completed, and then a plan developed for representative sampling of the treated wood and soil beneath transformer poles.

Additional non-scope issues of environmental concern include:

- **Building Hazardous Materials** - potential asbestos containing building materials and lead based paint in Buildings 1-7, asbestos materials related to piping in Buildings 2 and 4, and lead based paint in the 14 ordinance bunkers and water tower.

The 14 ordnance bunkers themselves are likely to have stored hazardous materials. No evidence of floor pitting or staining was observed in the bunkers, and the concrete flooring was noted to be in excellent condition. The bunkers are fully constructed of concrete. No obvious visual evidence of a likely REC was noted in the bunkers. A potential non-scope issue associated with the bunkers (i.e. primarily lead based paint) remains a concern though.

6.0   INTERVIEWS

Leighton conducted interviews with persons having knowledge of current or past Site usage. Interviews were conducted either orally or in the form of a written questionnaire. Written responses are included as **Appendix D**.

6.1   Interview with Owners

The property Owner is March JPA, but all correspondences with them are through MERIDIAN PARK WEST, LLC (client/User). MERIDIAN PARK WEST, LLC., provided information from March JPA via a second completed User questionnaire vs. the completion of the Owner/Site Manager questionnaire. In addition, prior discussions with a client/User representative (Mr. Timothy Reeves) indicated that March JPA did not have any detailed information regarding environmental conditions of the Site. Based on the above information, and in consideration of other information obtained during this assessment, the lack of a completed Owner questionnaire is a data gap judged to have a low likelihood of significance.

The second completed User questionnaire indicated information was obtained from Dan Fairbanks of March JPA. The questionnaire indicated prior knowledge of environmental conditions on the property was limited to Environmental Impact Statements from February 1996 and September 1999. No other information was provided in this second User questionnaire which was considered to be of significance in regards the Phase I ESA. The second User questionnaire was also not signed.

6.2   Interview with Property Manager

The Site manager is considered the same as the Site owner (March JPA). No additional information could be obtained from the Site Manager.

6.3   Interviews with Occupants

A fireworks company uses of several of the former ordnance bunkers for the storage of boxed, finished firework products, and portions of Building 3 for the storage of cardboard. It was confirmed that they only use the facility for storage; otherwise, no additional interview was completed with this Site occupant.

6.4   Interviews with Local Government Officials

Leighton did not interview employees with local government agencies.

6.5   Interviews with Others

Leighton did not conduct any other additional interviews. The interview with the User of the Phase I ESA report (MERIDIAN PARK WEST, LLC) is discussed above in **Section 3.0.**

7.0 FINDINGS

Leighton performed a Phase I ESA for the property located in Riverside, California (**Figure 1**).

7.1   Onsite

Attached in **Appendix C** is a map showing the limits of the proposed Site development. The area of the proposed development is approximately 312 acres. Client has requested that an additional 100 feet around the proposed development area be included in this assessment. The Site consists of all or portions of the following 15 Riverside County APNs:

- **APN**
- 276-170-007
- 276-120-001
- 294-020-001
- 297-090-001,-002,-003,-005,-006,-007,-008,-009
- 297-080-002,-003,-004,-005

The Site is part of the former March Air Force Base, and is mostly comprised of a former ordnance storage area. This former ordnance area is surrounded by approximate 10-foot high barbed-wire-topped, chain-link fencing, and makes up approximately 70% of the Site/proposed development area. The remaining area of the Site is undeveloped land.

The former ordnance storage area is occupied by 14 single-story, concrete ordnance storage bunkers (circa 1950's and 1960's), and seven associated single-story buildings (circa late 1950's to mid-1960's) in various states of abandonment. Numerous asphalt paved roads, as well as dirt roads, exist within the ordnance storage area, and connect the various structures.

The Site elevations range from approximately 1,620 to 1,760 feet above msl. Shallow soils consists of approximately two to seven feet of topsoil (comprised of silty sand and silty clayey sand) underlain by granitic bedrock of varying degrees of weathering. Groundwater was encountered at approximately 48 feet bgs (within the bedrock) in one of six former geotechnical borings drilled at the Site. Based on topography of the Site, the flow direction of groundwater is estimated to be west to northwest beneath most of the Site, with some flow to the east beneath the eastern-most portions of the Site.

The Site is listed in various environmental databases within the context of a larger regional listing for the former March Air Force Base. Leighton staff researched other local and regional regulatory records using the current site APNs. DTSC reported no records found for the Site. The RCDEH and SARWQCB were unable to search for records without a street address.

A review of the Envirostor, Geotracker, CalGEM, and SCAQMD FINDS databases revealed no records associated with the Site. A review of the NPMS (pipelines) database revealed a SoCal Gas Co. pipeline transecting through the northern portion of the Site (E-W). Several attempts were made (via telephone and email) to contact the SoCal Gas Co. to obtain further information

on this pipeline, but no responses were received. There is a low likelihood that current operations of this natural gas pipeline has impacted the Site with a REC; however, no information could be obtained regarding historical operations.

No prior environmental reports associated with the Site were provided by the Client for review, or found during this assessment.

Based on research discussed within this report, no facilities with reported releases of VOCs were identified which would indicate a potential Vapor Encroachment Condition (VEC) for the Site, with one potential exception:

- **US Air Force, former March AFB – OU-2-Site 25 Munitions Burial Site -** This facility is located adjoining southeast of the Site. It is a former munitions burial site with reported soil contaminants that included munitions residues such as nickel, 1,3,5-trinitrobenzene, nitroglycerin, benzo(a)pyrene, RDX and 1,1-dichloroethene. In 1997, the USAF excavated 3,000 cubic yards of non–hazardous waste and soil from this facility and disposed of them in an engineered waste landfill 1.5 miles south-southeast of the subject Site. No evidence was found to indicate soil <u>gas</u> samples were collected during this 1997 removal action and subsequent confirmation sampling. This is not unexpected given that vapor intrusion issues were not a common concern in 1997. Despite the absence of known soil gas data for Site 25, it is our judgment it is not a VEC for the subject Site based on the reported groundwater flow direction (east), and the distance between the subject Site and the reported Site 25 remediation areas.

Historically, the Site was undeveloped and unused during the 1930's, with the exception of some dry farming along its edges. By 1949, a series of ordnance bunkers and few small buildings had been constructed in the center of the Site. In the 1950's an additional road-line of ordnance bunkers was installed west of the original bunkers, and then another (further west) in the early 1960's. Also in the early 1960's, seven buildings (that exist at present day) were constructed in the NE quadrant of the Site, and all older buildings (from 1940's or 1950's) were removed. By 1976, the original ordnance bunkers in the central portion of the Site had been removed, and the Site appeared largely in its present-day configuration. It unknown when the ordinance storage area became no longer used by the military; however, March Air Force Base was closed in 1996 (converted to March Air Reserve Base). A pipeline alignment has been visible in the northern portion of the Site (transecting E-W) since the 1940's (present-day SoCal Gas Co. natural gas pipeline).

Since 1976, increasing residential development has occurred nearby (but not adjoining) to the north, west and south. A former munitions burial area (Site 25) existed adjoining southeast of the Site from at least 1967 to approximately 2002. Based on the historical Site development review, the following potential environmental concerns are noted:

- **Building Hazardous Materials -** The present day ordnance bunkers and buildings on the Site are approximately 60 years old, and may have asbestos containing building

materials, lead based paint, and other universal rule wastes. In regards to the ordnance bunkers, they are constructed entirely of concrete, and the potential for asbestos is low.

- **U-Shaped Feature** - From at least 1962 to 1989, an unknown U-shaped feature (likely concrete pad) and associated access road existed near the northern edge of the Site. Its use is unknown.

- **Historical Storage/Cleared Areas** - Various historical areas which were cleared, used for storage, or had former small buildings, existed during the late 1940's and 1950's at several locations in the central portions of the Site (see **Figure 3**).

The Site reconnaissance revealed the following potential environmental concerns for which additional assessment is recommended:

- **Potential UST Vent Line** - A potential UST vent line was observed on the exterior northern wall of Building 1 (**Appendix B – Photo 43**).

- **Water Cooling Tower** - A water cooling tower was observed between Buildings 1 and 2 (**Appendix B – Photo 10**) with evidence of subsurface piping likely leading to one or both of these nearby buildings. Older water treatment chemicals are a concern.

- **Building 2** – The interior of Building 2 contained three tanks of what appeared to be petroleum liquids, and a large amount of process piping (both above the floor and in subgrade concrete-lined trenches) indicating manufacturing processes involving liquids. The adjoining water cooling tower may have also been connected to this building.

- **Electrical Transformers / Equipment** - Pole-mounted electrical transformer banks were observed east of Buildings 2 and Building 4, with the empty transformer cans on the ground, indicating they may have been scavenged for metals (**Appendix B** - **Photo nos. 44, 11, 9, 45**). Also, west of Building 5 are two large pad-mounted electrical transformers, with evidence of leakage onto the soil adjoining one of them (**Appendix B – Photo 24**). The interior of Building 5 also contains large scale electrical distribution equipment which appears many decades old (**Appendix B – Photo 23**).

- **Undocumented Stockpile** - A decomposed granite stockpile is located on the western portion of the Site. No staining or odors were observed (**Appendix B – Photo no. 33**). The source of this stockpile is unknown.

- **Wood Poles** - Numerous treated wood utility poles exist at the Site. A specific count was not completed; however, it is likely more than 200. Some of the poles appear to be used for communications (attenae), while most are for facility lighting and electrical distribution. Some of the electrical distribution poles contain small pole-mounted transformers.

The 14 ordnance bunkers themselves are likely to have stored hazardous materials. No evidence of floor pitting or staining was observed in the bunkers, and the concrete flooring was

noted to be in excellent condition. The bunkers are constructed entirely of concrete. No likely evidence of a REC was noted. Potential non-scope issues associated with the bunkers (i.e. primarily lead based paint) remain a concern.

As of the date of this report, no interview or questionnaires were completed by the Phase ESA User or Site Owner/Manager.

7.2   Offsite

The environmental database search indicated <u>no</u> adjoining or nearby facilities likely to have created a REC on the Site. A review of the Envirostor, SCAQMD FINDS, CalGEM and NPMS (pipelines) databases revealed <u>no</u> nearby facilities likely to have created a REC on the Site. A review of the Geotracker database revealed one off Site facility of potential concern:

- **US Air Force, former March AFB – OU-2-Site 25 Munitions Burial Site -** This facility is located adjoining southeast of the Site. It is a former munitions burial site with reported soil contaminants that included munitions residues such as nickel, 1,3,5-trinitrobenzene, nitroglycerin, benzo(a)pyrene, RDX and 1,1-dichloroethene. In 1997, the USAF excavated 3,000 cubic yards of non–hazardous waste and soil from this facility and disposed of them in an engineered waste landfill 1.5 miles south-southeast of the subject Site. Based on our review of documents associated with this facility, it is our judgement there is a low likelihood it has impacted the Site with a REC.

The reconnaissance of adjoining properties revealed <u>no</u> evidence indicating they have likely created a REC on the Site.

8.0   CONCLUSIONS & RECOMMENDATIONS

Following are summary conclusions and recommendations for the Site:

8.1   Onsite

No likely CRECs or HRECs were identified for the Site. The follow potential RECs, and associated recommendations for Phase II assessment are provided:

- **Building Hazardous Materials** - A hazardous materials survey is recommend for all existing buildings, including the ordnance bunkers, a water tower, and a water cooling tower. It is noted that most of Building 4 (locked/rusted doors), and all of Building 1 (collapsed roof) are not accessible.

- **U-Shaped Feature** - From at least 1962 to 1989, an unknown U-shaped feature (likely concrete pad) and associated access road existed near the northern edge of the Site. Its use is unknown. Limited shallow soil sampling (0-5 feet bgs) focused around it southern, western and northern edges is recommended.

- **Historical Storage/Cleared Areas** - Various historical areas which were cleared, used for storage, or had former small buildings, existed during the late 1940's and 1950's at several locations in the central portions of the Site (see **Figure 3**). These areas are a concern, and limited shallow soil sampling (0-5 feet bgs) is recommended.

- **Potential UST Vent Line** - A potential UST vent line was observed on the exterior northern wall of Building 1 (**Appendix B – Photo 43**). Further investigation of this feature is recommended via a geophysical survey.

- **Water Cooling Tower** - A water cooling tower was observed between Buildings 1 and 2 (**Appendix B – Photo 10**) with evidence of subsurface piping. Older water treatment chemicals are a concern, and limited shallow soil sampling around the base of this tower is recommended. Assessment of the subsurface piping run is also recommended (geophysical survey). The cooling tower itself may contain asbestos containing materials, and its material should be sampled in this regard.

- **Building 2** – The interior of Building 2 contained three tanks of what appeared to be petroleum liquids, and a large amount of process piping (both above the floor and in subgrade concrete-lined trenches) indicating manufacturing processes involving liquids. The manufacturing piping and equipment, and evidence of liquid processes, is a concern, and assessment of the soils beneath this building is recommended.

- **Electrical Transformers / Equipment** - Pole-mounted electrical transformer banks were observed east of Buildings 2 and Building 4, with the empty transformer cans on the ground, indicating they may have been scavenged for metals (**Appendix B** - **Photo nos. 44, 11, 9, 45**). Also, west of Building 5 are two large pad-mounted electrical transformers, with evidence of leakage onto the soil adjoining one of them (**Appendix B – Photo 24**). The interior of Building 5 also contains large scale electrical distribution equipment which appears many decades old (**Appendix B – Photo 23**). Shallow soil sampling for PCBs is recommended near all of the above-mentioned features. At the interior of Building 5, this soil sampling may be substituted with wipe samples of the concrete flooring near the electrical switching equipment. Selected soil samples analyzed for PCBs should also analyzed for TPH and Title 22 Metals.

- **Undocumented Stockpile** - A decomposed granite stockpile is located on the western portion of the Site. No staining or odors were observed (**Appendix B – Photo no. 33**). The source of this stockpile is unknown. Limited sampling of this stockpile is recommended before the materials is disturbed or used.

- **Wood Poles** - Numerous treated wood utility poles exist at the Site. A specific count was not completed; however, it is likely more than 200. Some of the poles appear to be used for communications (attenae), while most are for facility lighting and electrical distribution. Some of the electrical distribution poles contain small pole-mounted transformers. We recommend first that an inventory be completed of the approximate number and types of poles. A plan then should be developed for the representative sampling of treated wood from these poles, as well as the soil beneath those with electrical transformers (for

PCBs). This can then provide the basis for a plan for the proper disposal of the poles themselves, as well as any potential PCB impacted soils beneath them.

8.2 Offsite

No offsite properties were identified that are likely to have created a REC on the Site.

8.3 Data Gaps

The following data gaps were identified by Leighton:

- Records searches with the RCDEH and SARWQCB could not be conducted without a street address. In consideration of all other information obtained during this assessment, these data gaps are judged to have a low significance.

- As of the date of this report, no interviews or completed questionnaires were obtained from the Phase I ESA User or the Owner/Site Manager. Based on preliminary information communicated by the client indicating little information on the site history can be obtained, these data gaps are judged likely to have a low significance.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM E1527-13 for the property in Riverside, California. Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

In general, observations should be made during future development for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, and tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

9.0   DEVIATIONS

Leighton did not significantly deviate from or alter the scope of work, as defined in Section 1.3 of this report. The data gaps identified were judged likely to be insignificant, and unlikely to affect the ability of Leighton to identify RECs at the Site.

10.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

10.1   Corporate

Leighton is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our offices in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid and industrial waste. Phase I Environmental Property Assessments are a part of this practice area and have been conducted by us.

10.2   Individual

The qualifications of the Associate Geologist and the other Leighton environmental professionals involved in this Phase I ESA meet the Leighton corporate requirements for performing Phase I ESAs as specified by ASTM E1527-13.

10.3   Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

_____

Robert B. Hansen
Associate Environmental Geologist

DRAFT

APPENDIX A

REFERENCES

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, dated November 6, 2013.

CalGEM (California Department of Conservation, Geologic Energy Management Division), 2021, CalGEM Well Finder database, https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx, accessed August 22, 2021.

Envirostor, 2021, https://www.envirostor.dtsc.ca.gov/public/, accessed August 23, 2021.

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Leighton (Leighton Consulting, Inc.), 2011, Geotechnical Exploration Proposed Meridian West Campus Upper Plateau, West of La Crosse Street and South of Camino Del Sol, prepared for Lewis Land Developers, LLC, unpublished report dated September 24, 2021.

NOAA (National Oceanic and Atmospheric Administration), 2021, National Centers for Environmental Information, https://www.ncdc.noaa.gov/cdo-web/datatools/findstation, accessed August 23, 2021.

NPMS (National Pipeline Management System), 2021, https://www.npms.phmsa.dot.gov/, accessed August 19, 2021.

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SCAQMD (South Coast Air Quality Management District), 2021, https://www.aqmd.gov/nav/FIND; accessed August 23, 2021.

USGS (United States Geological Survey), 2012, Riverside East Quadrangle, 7.5-minute series topographic map; dated 2012.

USAF (United State Air Force), 2004, Former March Air Force Base, California, Operable Unit 2, Air Force Real Property Agency, Record of Decision, dated April 2004.

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Base Map: ESRI ArcGIS Online 2021

Approximate Site Boundary

I-215

N

| 0 | 2,000 | 4,000 |
Feet
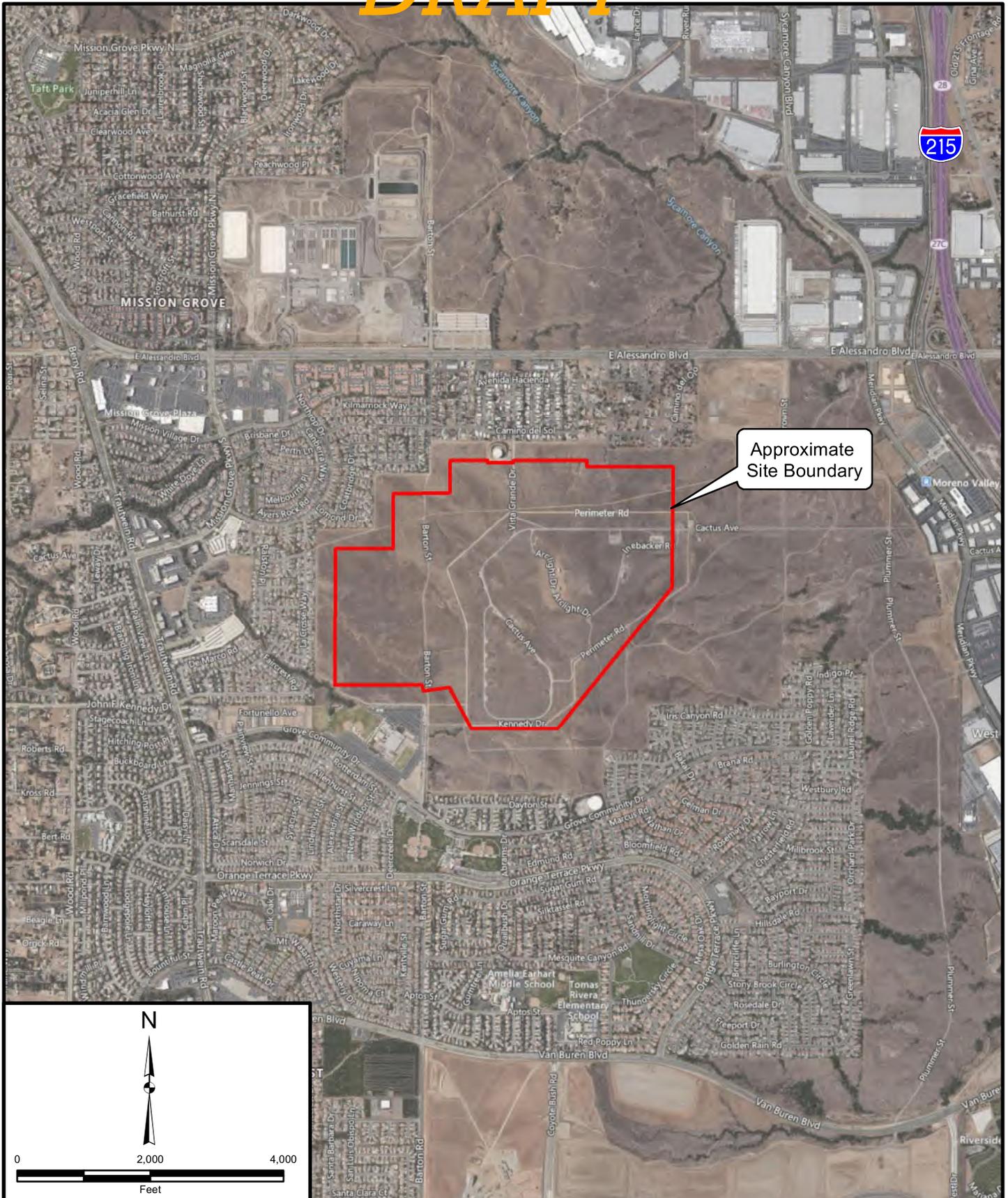
Project: 13226.002	Eng/Geol: RBH
Scale: 1 " = 2,000 '	Date: October 2021
Base Map: ESRI ArcGIS Online 2021	

SITE LOCATION MAP

Meridian-West Campus Upper Plateau
Riverside, California

FIGURE 1

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Legend

49 (arrow)	Approximate Photo Location, Designation, and Direction
D	Storm Drain
—·—	Approximate Area of Site 25
(purple box)	Approximate Location of Electric Transformer
(orange box)	Currently Fenced Former Ordnance Area
(blue box)	Buildings
(green box)	Ordnance Bunkers Area
(pink dashed)	Approximate Site Limits

Single Family Residential

Above Ground Storage Tank

Vacant Land

Recently Contructed Warehousoe

Building 6
Building 5

Building 5
Building 6

Building 7

Building 4

Building 3

Building 2

Water Tower

Water Cooling Tower

Building 1

Vacant Land

Single Family Residential

Vacant Land

Single Family Residential

DG Stockpile

Site 25 Primary Remediation Area

Small Safety Bunker

Approximate Area of Site 25

Grove Community Church

Vacant Land

Single Family Residential

Building 2
Water Cooling Tower
Building 1

N

0   600   1,200
Feet

SITE AND ADJOINING PROPERTIES MAP

Meridian-West Campus Upper Plateau
Riverside, California

FIGURE 2

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Legend

- ☐ Currently Fenced Former Ordnance Area
- ☐ Area of Historical Environmental Concern
- ☐ Approximate Site Limits

1962-89: U-Shaped Feature

1953: Bldg./Storage Area 1

1949: Cleared Area 1

Late 1940's - Early 1970's: Former Ordnance Bunker Area

1949-1967: Cleared Area 2

1953: Bldg/Storage Area2

N
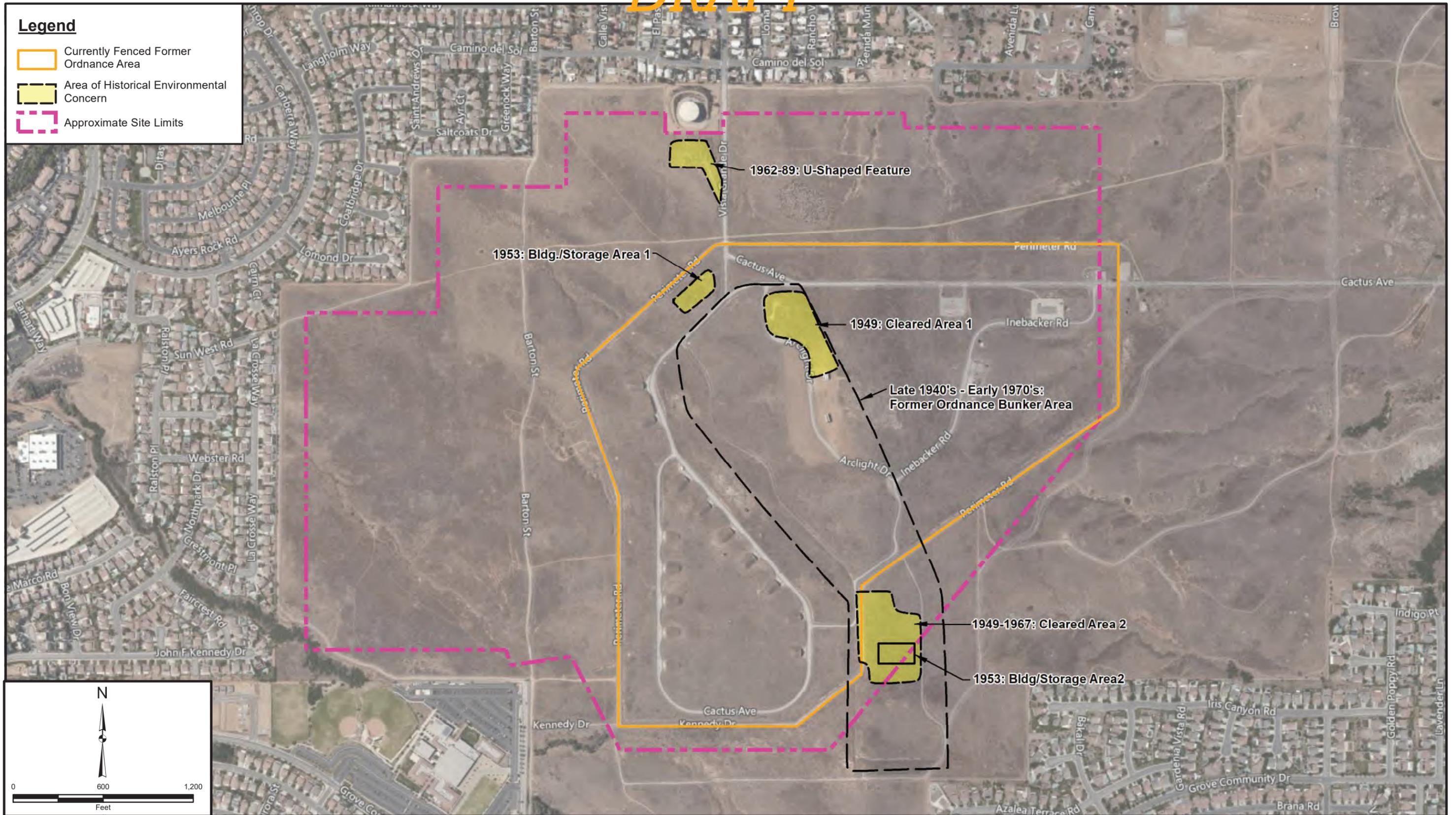
0   600   1,200
Feet

Project: 13226.002	Eng/Geol: RBH
Scale: 1 " = 600 '	Date: October 2021
Base Map: ESRI ArcGIS Online 2021	

HISTORICAL FEATURES OF CONCERN

Meridian-West Campus Upper Plateau
Riverside, California

FIGURE 3

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Appendix B

Site Reconnaissance Photos

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	Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 1

View of Direction of Photo:

Northwest

Description:

View to the northwest across the Site.

Photo No. 2

View of Direction of Photo:

Northeast

Description:

View to the northeast across the Site.

![Leighton logo] Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 3

View of Direction of Photo:

Southeast

Description:

View to the southeast across the Site

Photo No. 4

View of Direction of Photo:

Southwest

Description:

View to the southwest across the site.

Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 5	
View of Direction of Photo: North	
Description: View of the interior of Building 3. Area used for storage of automotive fluids and cleaning supplies.	

Photo No. 6	
View of Direction of Photo: West	
Description: Containers of waste oil in Building 3 on concrete surface..	

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![Leighton logo] Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 7	
View of Direction of Photo: West	
Description: Flammable materials storage cabinet in Building 3 containing diesel fuel cans.	

Photo No. 8	
View of Direction of Photo: Southeast	
Description: View of the north side (front) of Building 3.	

Photo No. 9	
View of Direction of Photo: N/A	
Description: Empty transformer casing east of Building 2	

Photo No. 10	
View of Direction of Photo: Southeast	
Description: Cooling tower located between Buildings 1 and 2. The intake and outlets of the cooling tower appear to be connected to subsurface pipelines.	

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![Leighton logo] Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 11	
View of Direction of Photo: North	
Description: Former electrical transformer area east of Building 2.	

Photo No. 12	
View of Direction of Photo: N/A	
Description: Pole-mounted transformers southeast of Building 1.	

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Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 13
View of Direction of Photo: N/A
Description: View of the soil beneath the pole-mounted transformers shown on Photo 12.

Photo No. 14
View of Direction of Photo: Southwest
Description: View of the interior of one of the ordnance bunkers on the Site.

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Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 15

View of Direction of Photo:

Southwest

Description:

View of the interior of one of the ordnance bunkers on the Site.

Photo No. 16

View of Direction of Photo:

East-northeast

Description:

Interior view of a bunker used to store empty cardboard boxes. An interior vault inside the bunker is visible behind the boxes.

![Leighton logo] Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **07/26/21 & 08/05/2021**	
Client Name: **Meridian – West Campus Upper Plateau**	**Site Location:** **Riverside, California**	**Project No.** **13226.002**

Photo No. 17

View of Direction of Photo:

East

Description:

Interior view of one of the ordnance bunkers and exterior wall of inner vault

Photo No. 18

View of Direction of Photo:

Northeast

Description:

Exterior view of one of the ordnance bunkers entrance doors.

Photo No. 19	
View of Direction of Photo: Southwest	
Description: View of the exterior of Building 4.	

Photo No. 20	
View of Direction of Photo: West	
Description: Exterior view of south side of Building 4.	

Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 21	
View of Direction of Photo: North	
Description: Refrigeration equipment room in the interior eastern portion of Building 4. Oil staining on concrete surface.	

Photo No. 22	
View of Direction of Photo: West	
Description: View of the interior of Building 5.	

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	Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **07/26/21 & 08/05/2021**
Client Name: **Meridian – West Campus Upper Plateau**	**Site Location:** **Riverside, California**	**Project No.** **13226.002**

Photo No. 23	
View of Direction of Photo: West	
Description: View of electrical panels in the interior of Building 5.	

Photo No. 24	
View of Direction of Photo: N/A	
Description: West side of Building 5. Large electrical transformers. View of stained soils and concrete near the base of one transformer	

Photo No. 25	
View of Direction of Photo: East	
Description: Underground vault filled with rubber-covered cable west of Building 5.	

Photo No. 26	
View of Direction of Photo: East	
Description: Interior view of a garage in Building 6	

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![Leighton logo] Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 27	
View of Direction of Photo: Northeast	
Description: Exterior view of Building 6	

Photo No. 28	
View of Direction of Photo: North	
Description: View of a petroleum product tank in Building 2.	

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![Leighton logo] Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 29	
View of Direction of Photo: East **Description**: View of electric motors and pumps in Building 2. Oil staining noted on concrete surface.	

Photo No. 30	
View of Direction of Photo: South **Description**: Petroleum product tank on the south wall of Building 2.	

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	PHOTOGRAPHIC RECORD
Leighton and Associates, Inc.	**07/26/21 & 08/05/2021**

| Client Name:
 Meridian – West Campus Upper Plateau | Site Location:
 Riverside, California | Project No.
 13226.002 |

Photo No. 31	
View of Direction of Photo: North	
Description: View across the north of the Site. Vacant land and then single family residential in background.	

Photo No. 32	
View of Direction of Photo: South	
Description: View across the northern portion of the Site. Above-ground water tank and adjoining Bldg. 2 in background.	

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![Leighton and Associates, Inc. logo] Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **07/26/21 & 08/05/2021**
Client Name: **Meridian – West Campus Upper Plateau**	**Site Location:** **Riverside, California**

| | **Project No.**
 13226.002 |

Photo No. 33	
View of Direction of Photo: West **Description**: Decomposed granite stockpile of unknown source/origin in western portion of site (foreground). Adjoining east vacant land and residential developments (far background).	

Photo No. 34	
View of Direction of Photo: Northwest **Description**: View of safety bunker adjoining southeast of the Site.	

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	Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021

Client Name: Meridian – West Campus Upper Plateau	Site Location: Riverside, California	Project No. 13226.002

Photo No. 35

View of Direction of Photo:

Southeast

Description:

View of entrance to safety bunker adjoining southeast of the Site.

Photo No. 36

View of Direction of Photo:

East

Description:

View of the former landfill area southeast of the Site.

Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** 07/26/21 & 08/05/2021	
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

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Photo No. 37	
View of Direction of Photo: Northwest	
Description: View of the former landfill area southeast of the Site.	

Photo No. 38	
View of Direction of Photo: Southeast	
Description: View of the small house east of the Site.	

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![Leighton logo] Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** 07/26/21 & 08/05/2021
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 39	
View of Direction of Photo: North	
Description: View of the military working dog kennels east of the Site.	

Photo No. 40	
View of Direction of Photo: West	
Description: View of a storm drain	

Leighton and Associates, Inc.

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PHOTOGRAPHIC RECORD
07/26/21 & 08/05/2021

Client Name:
Meridian – West Campus Upper Plateau

Site Location:
Riverside, California

Project No.
13226.002

Photo No. 41

View of Direction of Photo:
Northeast

Description:
View across the center of the site.

Photo No. 42

View of Direction of Photo:
Southwest

Description:
View across the center of the Site toward the ordinance bunkers.

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Leighton and Associates, Inc.

PHOTOGRAPHIC RECORD
07/26/21 & 08/05/2021

| **Client Name:** | **Site Location:** | **Project No.** |
| Meridian – West Campus Upper Plateau | Riverside, California | 13226.002 |

Photo No. 43

View of Direction of Photo:

Southeast

Description:

View of potential UST vent line on northern wall of Bldg 1.

Photo No. 44

View of Direction of Photo:

North

Description:

Scavenged electrical transformers on east side of Building 2.

Photo No. 45	
View of Direction of Photo: Northeast	
Description: Scavenged transformers east of Building 4.	

Photo No. 46	
View of Direction of Photo: Northeast	
Description: Interior of smaller vault within ordnance bunker	

![Leighton logo] Leighton and Associates, Inc.	PHOTOGRAPHIC RECORD 07/26/21 & 08/05/2021	
Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 47	
View of Direction of Photo: South	
Description: Southern edge of Site (in foreground) and adjoining south single family residential development (in background)	

Photo No. 48	
View of Direction of Photo: Southwest	
Description: Southwestern edge of Site (in foreground) and adjoining southwest Grove Community Church (in background)	

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	Leighton and Associates, Inc.	**PHOTOGRAPHIC RECORD** **07/26/21 & 08/05/2021**

Client Name: Meridian – West Campus Upper Plateau	**Site Location:** Riverside, California	**Project No.** 13226.002

Photo No. 49	
View of Direction of Photo: South	
Description: High security fencing around former ordnance area of Site.	

Photo No. 50	
View of Direction of Photo: Northeast	
Description: Water tower	

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Appendix C

Site / Development Area Map

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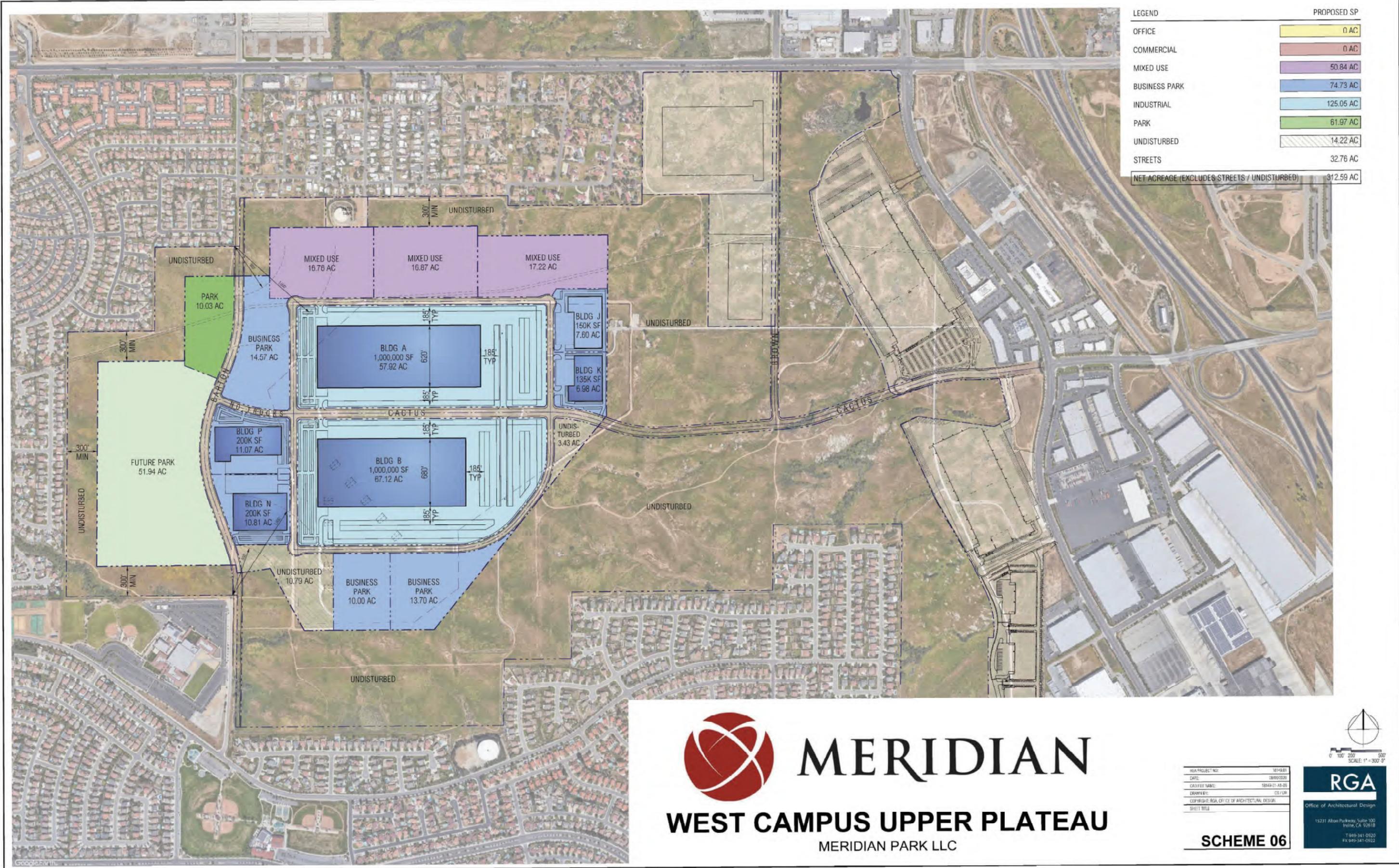
LEGEND	PROPOSED SP
OFFICE	0 AC
COMMERCIAL	0 AC
MIXED USE	50.84 AC
BUSINESS PARK	74.73 AC
INDUSTRIAL	125.05 AC
PARK	61.97 AC
UNDISTURBED	14.22 AC
STREETS	32.76 AC
NET ACREAGE (EXCLUDES STREETS / UNDISTURBED)	312.59 AC

UNDISTURBED

UNDISTURBED

MIXED USE
16.76 AC

MIXED USE
16.67 AC

MIXED USE
17.22 AC

PARK
10.03 AC

BUSINESS
PARK
14.57 AC

BLDG A
1,000,000 SF
57.92 AC

BLDG J
150K SF
7.60 AC

UNDISTURBED

BLDG K
135K SF
6.98 AC

CACTUS

UNDIS-
TURBED
3.43 AC

BLDG P
200K SF
11.07 AC

FUTURE PARK
51.94 AC

BLDG B
1,000,000 SF
67.12 AC

UNDISTURBED

UNDISTURBED

BLDG N
200K SF
10.81 AC

UNDISTURBED
10.79 AC

BUSINESS
PARK
10.00 AC

BUSINESS
PARK
13.70 AC

UNDISTURBED

UNDISTURBED

MERIDIAN

WEST CAMPUS UPPER PLATEAU

MERIDIAN PARK LLC
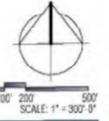
RGA
Office of Architectural Design

SCHEME 06

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Appendix D

Phase 1 Owner and User Questionnaires

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Phase I ESA Users Questionnaire

Project Name: Meridian Upper Plateau

Complete and Correct Address(es) of the Property and APN(s):

Please refer to APN Map

User Company Name:	**User Name/Title:**
Meridian Park, LLC	Adam Collier, Vice President

User Phone/Email: 909-946-7593   adam.collier@lewismc.com

Interviewee Name and Relationship to Project:

Adam Collier - Project Manager

Site Owner: March Joint Powers Authority

Reason Phase I is required:

Purchasing property

Type of property:

Former military base property transferred to the March Joint Powers Authority through the Base Realignment and Closure Commission (BRAC).

Type of property transaction (e.g., Sale, purchase, exchange):

Purchase

Any scope of services beyond the ASTM Practice E 1527:

Unknown

All Parties that will rely on the Phase I report:

Unknown

Name and Contact Information for Site Contact:

Dan Fairbanks, 951-656-7000

Any special terms or conditions:

None

Any other pertinent knowledge or experience with the property (e.g., prior reports, documents, correspondence concerning the environmental conditions of the property):

None

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?   Yes | No

If Yes, Describe: Unknown

---

(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?   Yes | No

If Yes, Describe: Unknown

---

(3). Specialized knowledge or experience of the person seeking to qualify for the Landowners Liability Protections (LLP) (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the property or the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
          Yes | ✓ No

If Yes, Describe:

---

(4). Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 DRF 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?
          Yes | No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?   Yes | No

If Yes, Describe: The Acquisition terms for the property are based on a Disposition and Development Agreement dated December 2001, and subsequently amendmended and assumed by Meridian Park, LLC.

---

(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

(a.)   Do you know the past uses of the property?   ✓ Yes | No

(b.)   Do you know of specific chemicals that are present or once were present at the property?   Yes | ✓ No

(c.)   Do you know of spills or other chemical releases that have taken place at the property?   Yes | ✓ No

(d.)   Do you know of any environmental cleanups that have taken place at the property?   Yes | ✓ No

If Yes, Describe: Portions of the property (bunkers) were formerly used to store weapons at March Air Force Base. Those bunkers were then re-purposed to store fireworks, and have been used for that activity for approximately 12 years.

---

(6). The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?*   Yes | ✓ No

If Yes, Describe:

10/13/21

_____   _____
Signature   Date

Leighton

DRAFT

Phase I ESA Users Questionnaire

Project Name: Meridian West Upper Plateau

Complete and Correct Address(es) of the Property and APN(s):

The property is an approximate 807.5 acre area, as identified in the RGA land use plan ⊞

User Company Name:	User Name/Title:
Meridian Park, LLC.	Adam Collier, Vice President

User Phone/Email: (909) 946-7593   Adam.Collier@lewismc.com

Interviewee Name and Relationship to Project:

Dan Fairbanks, March JPA Planning Director

Site Owner: March Joint Powers Authority

Reason Phase I is required:

Future Development of Property

Type of property:

Former military base property transferred to the March Joint Powers Authority through the Base Realignment and Closure Commission (BRAC).

Type of property transaction (e.g., Sale, purchase, exchange):

Conveyance of public property in compliance with the Disposition and Development Agreement, dated December 2001,between the March Joint Powers Authority, the March Joint Powers Redevelopment Agency and LNR, Riverside LLC, as subsequently amended an

Any scope of services beyond the ASTM Practice E 1527:

Unknown

All Parties that will rely on the Phase I report:

Meridian Park, LLC, March Joint Powers Authority.

Name and Contact Information for Site Contact:

Adam Collier, (909) 946-7593

Any special terms or conditions:

Unknown.

Any other pertinent knowledge or experience with the property (e.g., prior reports, documents, correspondence concerning the environmental conditions of the property):

Environmental Impact Statement, February 1996, Disposal of Portions of March Air Force ⊞

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?   Yes | No

If Yes, Describe: Unknown.

(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?   Yes | No

If Yes, Describe: Unknown.

(3). Specialized knowledge or experience of the person seeking to qualify for the Landowners Liability Protections (LLP) (40 CFR 312.28).

Do you have any specialized knowledge or experience related to the property or the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

✓   Yes | No

If Yes, Describe: The property deed from the United States of America to the the March Joint Powers Authority indicates the possible p

(4). Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 DRF 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

          Yes | No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?   Yes | No

If Yes, Describe: The Acquisition terms for the property are based on a Disposition and Development Agreement dated December 2001, and subsequently amendmended and assumed by Meridian Park, LLC.

(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

(a.)   Do you know the past uses of the property?   ✓ Yes | No

(b.)   Do you know of specific chemicals that are present or once were present at the property?   Yes | ✓ No

(c.)   Do you know of spills or other chemical releases that have taken place at the property?   Yes | ✓ No

(d.)   Do you know of any environmental cleanups that have taken place at the property?   Yes | ✓ No

If Yes, Describe: Portions of the property (bunkers) were formerly used to store weapons at March Air Force Base. Those bunkers were then re-purposed to store fireworks, and have been used for that activity for approximately 12 years.

(6). The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property*, are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?*   Yes | ✓ No

If Yes, Describe:

_____   _____

Signature   Date

Leighton

DRAFT

Appendix E

Environmental Lien Report

Leighton

DRAFT

netr
Real Estate Research
& Information
NETROnline.com

The NETR Environmental Lien and AUL Search Report

MARCH AIR FORCE BASE
RIVERSIDE COUNTY, CALIFORNIA

2055 East Rio Salado Parkway
Tempe, Arizona 85281

Friday, August 13, 2021

Project Number: L21-00938

Telephone: 480-967-6752
Fax: 480-966-9422

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:
- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business
Please contact NETR at 480-967-6752
with any questions or comments

ENVIRONMENTAL LIEN AND AUL REPORT

The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
      Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

That part of Parcel 20 of Parcel Map Number 4806, according to the map or plat thereof, as filed of record in Book 7, Page 8, Riverside County, State of California

Assessor's Parcel Number(s): 276-120-001

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

That part of Parcel 20 of Parcel Map Number 4806, according to the map or plat thereof, as filed of record in Book 7, Page 8, Riverside County, State of California

Assessor's Parcel Number(s): 276-170-007

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

> **March Air Force Base**
> **Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
      Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

That part of Lot 2, Block 27, of the S. B. Alessandro Tract, according to the map or plat thereof, as filed of record in Book 6, Page 13, Riverside County, State of California

Assessor's Parcel Number(s): 294-020-001

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

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ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Northwest Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-080-002

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

**March Air Force Base
Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
       Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the North Half of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-080-003

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Northeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-080-004

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
       Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Northeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-080-005

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
       Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southwest Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-001

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

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ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

**March Air Force Base
Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-002

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

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ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the East Half of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-003

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

DRAFT

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
          Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-005

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

Notice of Hazardous Substances Stored or Disposed of and Notice of Remedial Actions Taken on the Property was attached as Exhibit A to Quitclaim Deed filed on 5/25/2001 as Instrument 2001-234433. Air Force Real Property Agency Record of Decision filed with the California Department of Toxic Substances Control Table D-1 "Site Status Summary" identifies whether institutional controls are required. Based on this document, the subject parcel is not subject to any Institutional Controls. Copies are attached.

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ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

> **March Air Force Base**
> **Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-006

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

Notice of Hazardous Substances Stored or Disposed of and Notice of Remedial Actions Taken on the Property was attached as Exhibit A to Quitclaim Deed filed on 5/25/2001 as Instrument 2001-234433. Air Force Real Property Agency Record of Decision filed with the California Department of Toxic Substances Control Table D-1 "Site Status Summary" identifies whether institutional controls are required. Based on this document, the subject parcel is not subject to any Institutional Controls. Copies are attached.

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

**March Air Force Base
Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-007

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

**March Air Force Base
Riverside County, California**

RESEARCH SOURCE

Source: Riverside County Assessor
        Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southeast Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-008

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

ENVIRONMENTAL LIEN AND AUL REPORT

TARGET PROPERTY INFORMATION

ADDRESS

March Air Force Base
Riverside County, California

RESEARCH SOURCE

Source: Riverside County Assessor
Riverside County Recorder

DEED INFORMATION

Type of Instrument: Quit Claim Deed

Grantor: United States of America

Grantee: March Joint Powers Authority

Deed Dated: 02/28/2001
Deed Recorded: 05/25/2001
Instrument: 2001-234433

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Southwest Quarter of Section 16, Township 3 South, Range 4 West of the San Bernardino Principal Meridian, Riverside County, State of California

Assessor's Parcel Number(s): 297-090-009

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐   Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐   Not Found ☒

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Recording Requested by,
And when recorded mail to:

March Joint Powers Authority
P. O. Box 7480
Moreno Valley, California 92552

Exempt from Documentary Transfer Tax
Rev. & Tax. Code §11922

QUITCLAIM DEED

I. PARTIES

THIS DEED is made and entered into this 28TH day of FEBRUARY, 2001 by and between the UNITED STATES OF AMERICA, acting by and through the Secretary of the Air Force, under and pursuant to the powers and authority contained in the Defense Base Closure and Realignment Act of 1990, as amended (10 U.S.C. § 2687 note), and delegations and regulations promulgated thereunder (the "Grantor"), and the MARCH JOINT POWERS AUTHORITY, a joint powers authority established under the laws of the State of California (the "Grantee"). The Grantee is a local redevelopment authority, as this term is defined in the Defense Authorization Amendments and Base Closure and Realignment Act of 1988, as amended. When used in this Quitclaim Deed, unless the context specifies otherwise, the use of the term "Grantor" shall include the assigns of the Grantor, and the use of the term "Grantee" shall include the successors and assigns of the Grantee.

II. CONSIDERATION AND CONVEYANCE

FOR VALUABLE CONSIDERATION of the sum of ONE DOLLAR ($1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, the Grantor does hereby release and forever quitclaim to the Grantee all that real property situated in County of Riverside, State of California, described as follows:

In the County of Riverside, State of California, those portions of Sections 15, 16, 17, 21, 22, 27 and 28 of Township 3 South, Range 4 West, San Bernardino Base and Meridian, more particularly described as follows:

Beginning at the common section corner to Sections 16, 17, 20 and 21 of Township 3 South, Range 4 West, San Bernardino Base and Meridian; thence along the southerly, westerly and northerly lines of Parcel 20 of Parcel Map 4806, as shown on the map filed in Book 7, Pages 8 through 12 inclusive of Parcel Maps in said County Recorder's Office, the following five courses:

1. South 89°46'32" West 1,700.03 feet;
2. North 00°31'26" East 2,647.59 feet;
3. North 89°47'13" East 860.02 feet;
4. North 00°31'26" East 840.03 feet;
5. North 89°47'12" East 840.01 feet to the easterly line of said Section 17;

thence leaving said Parcel 20, along said easterly line North 00°31'28" East 483.32 feet to the southerly line of the North half of the Northwest quarter of said Section 16; thence along said southerly line North 89°53'27" East 2,660.12 feet to easterly line of said Northwest quarter; thence along said easterly line South 00°36'25" West 99.04 feet to the southwest corner of Parcel Map 9723 filed in Book 111 Pages 54 through 56 inclusive of Parcel Maps in said County Recorder's Office; thence along the southerly line of said Parcel Map North 89°54'26" East 1,330.01 feet to the southeast corner thereof; thence along the easterly line of said Parcel Map North 00°38'08" East 99.32 feet to the most westerly corner of Parcel Map 17572 filed in Book 137, Pages 65 through 67 inclusive of Parcel Maps of said County Recorder's Office; thence along southerly and easterly lines of said Parcel Map the following two courses:

1. North 89°53'30" East 664.97 feet;
2. South 00°39'44" West 1,322.51 feet to the southerly line of the northeast quarter of said Section 16;

thence along said southerly line North 89°52'53" East 664.90 feet to the easterly quarter corner of said Section 16; thence along the easterly line of said northeast quarter, North 00°39'56" East 2,542.75 feet to the southerly right-of-way of Alessandro Boulevard as shown on California Department of Transportation Map No. 435571-7 on file with the County of Riverside as Map No. 205-253; thence along said southerly right of way North 89°53'24" East 1,201.72 feet; thence leaving said southerly right-of-way, along the easterly line of parcel 2 of said Record of Survey the following ten courses:

1. South 38°39'15" East 2,811.22 feet;
2. South 30°07'21" East 1,855.76 feet;
3. South 70°03'01" West 662.52 feet;
4. North 20°02'22" West 173.57 feet;
5. South 70°00'53" West 560.28 feet;
6. South 19°56'28" East 774.22 feet;
7. North 70°03'01" East 55.54 feet;
8. South 01°00'36" West 2,375.44 feet;
9. South 09°31'07" East 2,716.43 feet;
10. South 19°19'15" East 1,012.51 feet to a point on the southerly right-of-way of Van Buren Boulevard as described in a document filed in Book 1973 Page 74835 in said County Recorder's Office, said point being the beginning of a non tangent curve concave southeasterly having a radius of 2,944.79 feet, a radial line to said beginning of curve bears North 22°44'28" West;

thence along said southerly right of way the following seven courses:

1. Southwesterly 176.85 feet along said curve through a central angle of 03°26'28";
2. South 63°49'04" West 597.28 feet;

3. South 59°06'47" West 90.43 feet;
4. South 64°41'15" West 102.99 feet;
5. South 62°13'15" West 99.99 feet;
6. South 63°11'38" West 99.70 feet;
7. South 64°31'15" West 111.41 feet;

thence leaving said southerly right-of-way North 00°01'43" West 70.59 feet to the centerline of Van Buren Boulevard as shown on the map filed in Book 84, Page 37 of Records of Survey; thence along said centerline the following four courses:

1. South 63°49'04" West 94.73 feet to the beginning of a curve concave northerly having a radius of 2,999.79 feet;
2. Southwesterly, westerly and northwesterly along said curve 2,930.12 feet through a central angle of 55°57'54";
3. North 60°13'02" West 648.18 feet to the beginning of a curve concave southerly having a radius of 2,999.79 feet;
4. Northwesterly and westerly along said curve 1,542.27 feet through a central angle of 29°27'26" to the southerly line of said Section 21;

thence along said southerly line South 89°40'27" East 2,218.79 feet to the Section corner common to said Sections 21, 22, 27, and 28; thence along the southerly line of said Section 22, North 89°35'25" East 1,282.57 feet to a line that is parallel with and 1369.40 feet westerly of the east line of the southwest quarter of said Section 22; thence along said parallel line North 00°30'42" East 2,663.96 feet to the southerly line of the northwest quarter of said Section 22; thence leaving said parallel line along said southerly line South 89°35'58" West 0.09 feet to a line that is parallel with and 1369.40 feet westerly of the easterly line of the northwest quarter of said Section 22; thence along said parallel line North 00°43'30" East 2,653.93 feet to the northerly line of said section 22; thence leaving said parallel line along said northerly line South 89°56'15" East 0.03 feet to a line that is parallel with and 1369.40 feet westerly of the easterly line of the southwest quarter of said Section 15; thence leaving said northerly line along said parallel line North 00°35'14" East 659.98 feet; thence leaving said parallel line North 89°56'13" West 1,276.82 feet to the easterly line of said Section 16; thence along said easterly line South 00°39'56" West 660.00 feet to the Section corner common to said Sections 15, 16 ,21 and 22; thence along the northerly line of said Section 21 South 89°51'02" West 1,992.05 feet; thence leaving said northerly line, South 00°46'26" West 664.03 feet; thence South 89°54'50" West 664.37 feet to the East line of the northwest quarter of Section 21; thence along said East line South 00°48'48" West 663.32 feet to the South line of the northerly half of the northwest quarter of said Section 21; thence along said South line South 89°58'15" West 2,657.96 feet to the West line of the northwest quarter of said Section 21; thence along said West line North 00°58'16" East 1,321.17 feet to the POINT OF BEGINNING.

Containing 57,125,475 square feet or 1,311.4205 acres, more or less, based on grid distance calculation.

The bearings and distances used in the above description are grid distances based on the California Coordinate System of 1983, Zone 6. Multiply distances shown by 1.00007058 to obtain ground distances.

III. APPURTENANCES

TOGETHER WITH all the buildings and improvements erected thereon, and all and singular the tenements, hereditaments, appurtenances, and improvements hereunto belonging, or in any wise appertaining (which, together with the real property above described, is called the "Property" in this Deed).

IV. RESERVATIONS

A. RESERVING UNTO THE GRANTOR all oil, gas, and other mineral resources of any kind or nature in the mineral estate of the Property; provided, however, that such reservation shall not include the right of access to or any right to use any portion of the surface of the Property.

B. AND FURTHER RESERVING UNTO THE GRANTOR, including the United States Environmental Protection Agency ("EPA") and the State of California (the "State"), and its and their respective officials, agents, employees, contractors, and subcontractors, the right of access to the Property (including the right of access to, and use of, utilities at reasonable cost to the Grantor), for the following purposes, either on the Property or on adjoining lands, and for such other purposes consistent with the Installation Restoration Program ("IRP") of the Grantor or the Federal Facility Agreement ("FFA"), if applicable:

1. To conduct investigations and surveys, including, where necessary, drilling, soil and water sampling, testpitting, testing soil borings, and other activities related to the IRP or FFA, if applicable.

2. To inspect field activities of the Grantor and its contractors and subcontractors in implementing the IRP or the FFA, if applicable.

3. To conduct any test or survey required by the EPA or the State relating to the implementation of the IRP or FFA, if applicable, or environmental conditions on the Property, or to verify any data submitted to the EPA or the State by the Grantor relating to such conditions.

4. To conduct, operate, maintain, or undertake any other response, corrective, or remedial action as required or necessary under the IRP or the FFA, if applicable, or the covenant of the Grantor in Section VII.D. of this Deed, but not limited to, the installation of monitoring wells, pumping wells, and treatment facilities.

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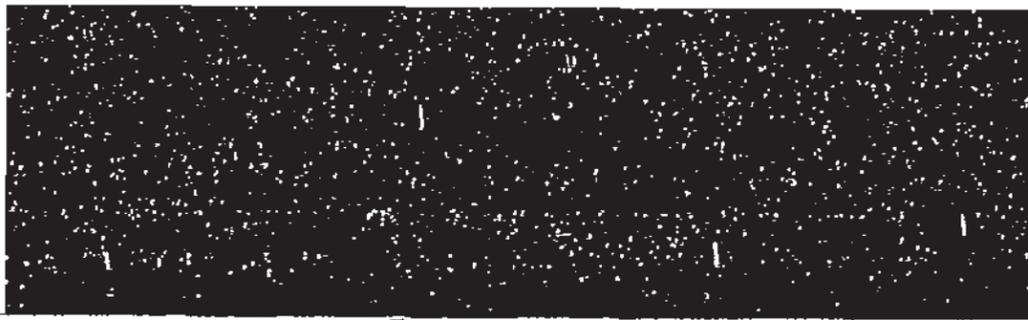
V. CONDITION

A. The Grantee agrees to accept conveyance of the Property subject to all covenants, conditions, restrictions, easements, rights-of-way, reservations, rights, agreements, and encumbrances, whether or not of record.

B. The Grantee acknowledges that it has inspected, is aware of, and accepts the condition and state of repair of the Property, and that the Property is conveyed, "as is," "where is," without any representation, promise, agreement, or warranty on the part of the Grantor regarding such condition and state of repair, or regarding the making of any alterations, improvements, repairs, or additions. The Grantee further acknowledges that the Grantor shall not be liable for any latent or patent defects in the Property, except to the extent required by applicable law.

VI. COVENANTS

A. Lead-Based Paint ("LBP").

1. The Property may include improvements that are presumed to contain LBP because they are thought to have been constructed prior to 1978. The Grantee hereby acknowledges the required disclosure in accordance with the Residential Lead-Based Paint Hazard Reduction Act of 1992, 42 U.S.C. § 4852d (Title X), of the presence of any known LBP and/or LBP hazards in target housing constructed prior to 1978. This disclosure includes the receipt of available records and reports pertaining to LBP and/or LBP hazards; receipt of the lead hazard information pamphlet; and inclusion of the 24 C.F.R. Part 35 Subpart H and 40 C.F.R. Part 745 Subpart F disclosure and lead warning language in the Title X Lead-Based Paint Disclosure Statement in the contract of sale.

2. The Grantee covenants and agrees that, in any improvements on the Property defined as target housing by Title X and constructed prior to 1978, LBP hazards will be disclosed to potential occupants in accordance with Title X before use of such improvements as a residential dwelling (as defined in Title X). Further, the Grantee covenants and agrees that LBP hazards in target housing constructed prior to 1960 will be abated in accordance with Title X before use and occupancy as a residential dwelling. "Target housing" means any housing constructed prior to 1978, except housing for the elderly or persons with disabilities (unless any child who is less than six [6] years of age resides, or is expected to reside, in such housing) or any zero-bedroom dwelling.

3. The Grantee covenants and agrees that in its use and occupancy of the Property, it will comply with Title X and all applicable Federal, State, and local laws relating to LBP. The Grantee acknowledges that the Grantor assumes no liability for damages for personal injury, illness, disability, or death to the Grantee, or to any other person, including members of the general public, arising from or incident to the purchase, transportation, removal, handling, use, disposition, or other activity causing or leading to contact of any kind whatsoever with LBP on
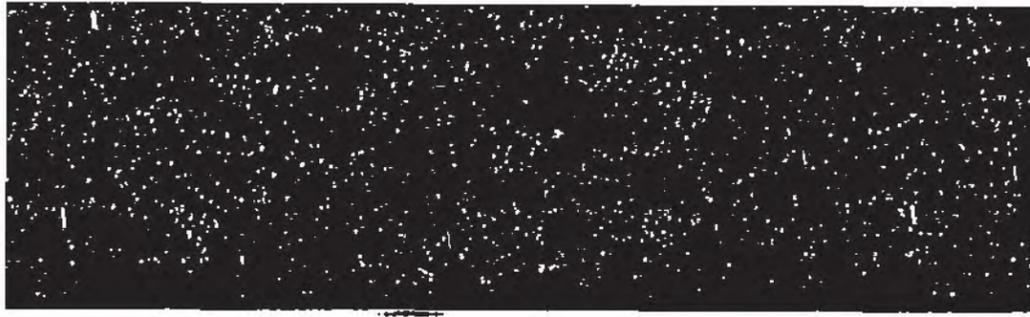
the Property, whether the Grantee has properly warned, or failed to properly warn, the persons injured.

B. *Asbestos-Containing Materials ("ACM").*

The Grantee is warned that the Property may be improved with buildings, facilities, and equipment that may contain ACM. The Grantee covenants and agrees that in its use and occupancy of the Property, it will comply with all applicable Federal, State, and local laws relating to asbestos. The Grantee acknowledges that the Grantor assumes no liability for damages for personal injury, illness, disability, or death to the Grantee, or to any other person, including members of the general public, arising from or incident to the purchase, transportation, removal, handling, use, disposition, or other activity causing or leading to contact of any kind whatsoever with asbestos on the Property, whether the Grantee has properly warned, or failed to properly warn, the persons injured.

C. Non-Discrimination.

The Grantee covenants not to discriminate upon the basis of race, color, religion, national origin, sex, age, or handicap in the use, occupancy, sale, or lease of the Property, or in its employment practices conducted thereon. This covenant shall not apply, however, to the lease or rental of a room or rooms within a family dwelling unit, nor shall it apply with respect to religion if the Property is on premises used primarily for religious purposes. The United States of America shall be deemed a beneficiary of this covenant without regard to whether it remains the owner of any land or interest therein in the locality of the Property.

D. Grantor Covenant.

1. Pursuant to Section 120(h)(3) of the Comprehensive Enviromental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. § 9620(h)(3)), the following is notice of hazardous substances on the Property and the description of remedial action taken concerning the Property:

a. The Grantor has made a complete search of its files and records. Exhibit A, Part 1, contains a table with the name of hazardous substances stored for one year or more, or known to have been released or disposed of, on the Property; the quantity in kilograms and pounds of the hazardous substance stored for one year or more, or know to have been released, or disposed of, so, on the Property; and the date(s) that such storage, release, or disposal took place.

b. A description of the remedial actions taken on the Property regarding hazardous substances is contained in Exhibit A, Part 2.

c. A map of the sites where remedial actions were taken is attached as Exhibit B.

2. The United States covenants and warrants that all remedial action necessary to protect human health and the environment with respect to hazardous substances remaining on the Property has been taken before the date of this Deed, and any additional remedial action found to

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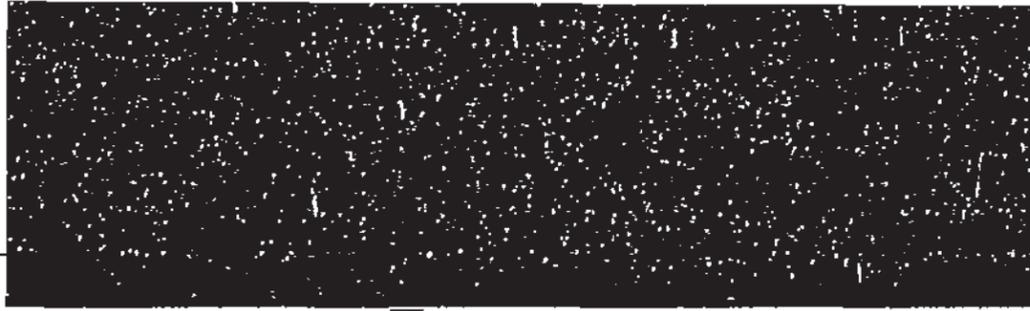
be necessary after the date of this Deed for contamination on the Property existing prior to the date of this Deed shall be conducted by the United States. The foregoing covenant shall not apply in any case in which the grantee of the Property, or any part thereof, is a potentially responsible party with respect to the Property before the date on which any grantee acquired an interest in the Property, or is a potentially responsible party as a result of an act or omission affecting the Property.

E. Endangered Species.

The Grantee acknowledges that threatened or endangered species, as those terms are defined under the Federal Endangered Species Act of 1973, as amended (the "Act") are present on certain portions of the Property and acknowledges receiving a copy of the Disposal and Reuse of March Air Force Base Biological Opinion, dated November 9, 1999. The Grantee covenants and agrees to comply with the terms of the biological opinion, including, without limitation, the obligation to consult with the United States Fish and Wildlife Service as necessary in connection with the construction and development of new improvements on the Property and mitigation of impacts to habitat of the endangered Stephens' Kangaroo Rat according to the formula set out in the biological opinion.

F. Wetlands.

The property contains wetlands protected under Federal and State laws and regulations which, among other things, restrict activities that involve the discharge of fill materials into wetlands, including, without limitation, the placement of fill materials; the building of any structure; site-development fills for recreational, industrial, commercial, residential, and other uses; causeways or road fills; and dams and dikes. The Grantee covenants and agrees that in its use of the Property, it will comply with all Federal, State, and local laws minimizing the destruction, loss, or degradation of wetlands. Before locating new construction in wetlands, the Grantee shall contact the United States Army Corps of Engineers and obtain a permit or waiver under Section 404 of the Clean Water Act of 1977 as amended. For purposes of this provision, "new construction" includes structures, facilities, draining, dredging, channelizing, filling, diking, impounding, and related activities.

G. Hazards to Air Navigation.

Prior to commencing any construction on, or alteration of, the Property, the Grantee covenants to comply with 14 C.F.R. Part 77 entitled "Objects Affecting Navigable Air Space," or under the authority of the Federal Aviation Act of 1958, as amended.

VII. MISCELLANEOUS

A. Each covenant of this Deed shall be deemed to "touch and concern the land" and shall "run with the land."
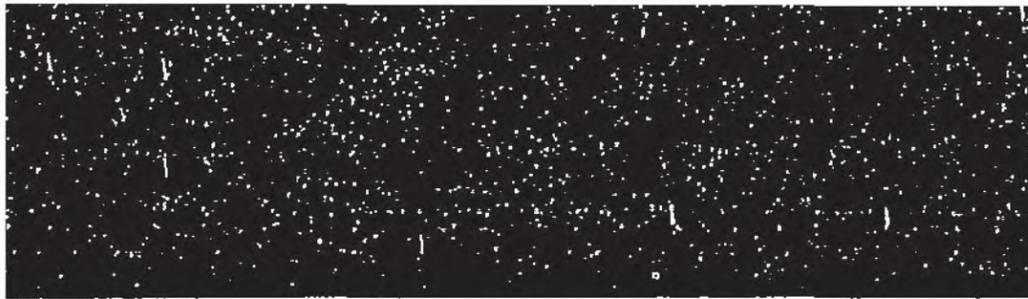
Acceptance

The Grantee hereby accepts this Deed and agrees to be bound by all the agreements, covenants, conditions, restrictions, and reservations contained in it.

DATE: __April 25__, 2001

(Grantee) **March Joint Powers Authority**

By: _____

Attest:

_____

Certificate of Grantee's Attorney

I, __John Brown__, acting as Attorney for the Grantee, do hereby certify that I have examined the foregoing Indenture and the proceedings taken by the Grantee relating thereto, and find that the acceptance thereof by the Grantee has been duly authorized and that the execution thereof is in all respects due and proper and in accordance with the laws of the State of California, and further, that, in my opinion, the Indenture constitutes a legal and binding compliance obligation of the Grantee in accordance with the terms thereof.

Dated at __Riverside__, California, this __25__ day of __April__, 2001.

By: _____

Title: __Legal Counsel__

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VIII. LIST OF EXHIBITS

The following Exhibits are attached to and made a part of this Deed:

A. Notice of Hazardous Substances Released or Disposed of and Notice of Remedial Actions Taken on the Property.

B. Map of Remedial Actions Taken on the Property.

IN WITNESS WHEREOF, I have hereunto set my hand at the direction of the Secretary of the Air Force, the day and year first above written.

UNITED STATES OF AMERICA

By: _Joyce K Frank_

JOYCE K. FRANK
Deputy Director
Air Force Base Conversion Agency

Certificate of Acknowledgment

Commonwealth of Virginia :

                ss.

County of Arlington   :

On FEBRUARY 28 , 2001 before me, DEBRA L. DICKSON , a Notary Public, personally appeared JOYCE K FRANK known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that (s)he executed the same in (his)(her) authorized capacity, and that by (his)(her) signature on the instrument, the entity on behalf of which (he)(she) acted, executed the instrument.

Debra L Dickson
Notary Public

My commission expires on DECEMBER 31, 2003.

DEBRA L. DICKSON
NOTARY PUBLIC COMMONWEALTH OF VIRGINIA
My Commission Expires December 31, 2003
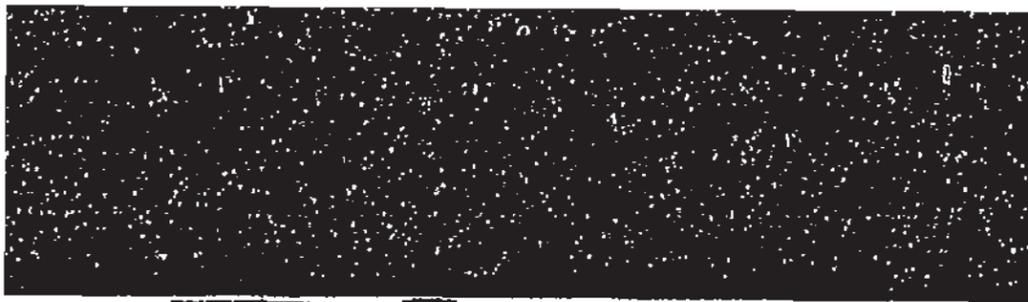
Exhibit A to Quitclaim Deed

Notice of Hazardous Substances Stored or Disposed of

And

Notice of Remedial Actions Taken on the Property

Part 1: Hazardous Substances.

IRP Site 3, a landfill, contained household waste, demolition debris, oil, solvents, thinners, and polychlorinated biphenyls. IRP Site 25, a munitions residue burial site, contained residue from small arms ammunition, egress items (e.g., aircraft ejection seat cartridges), smoke grenades, starter cartridges and other pyrotechnics that were deactivated in the detonation pit. Approximately 300 gallons of acetone were reportedly disposed of at this site. IRP Site 40, a landfill, contained drums, battery casings, construction rubble, and other debris.

Part 2: Remedial Action Taken.

Approximately 223,300 cubic yards of landfill materials and soil were removed from IRP Site 3 in 1996. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment.

Approximately 3,000 cubic yards of non-hazardous waste and contaminated soils were removed from IRP Site 25 in 1996. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment.

Approximately 6,800 cubic yards of non-hazardous materials were removed from IRP Site 40 in 1994. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment. During a later site visit and evaluation of available data, levels of mercury were identified in the sediments in a pond located at Site 40 that may present a threat to ecological receptors. The EPA and Air Force have researched the current site condition and potential corrective actions and determined that any actions taken to prevent exposure to mercury in sediments may be more disruptive to wetland habitat at Site 40 than leaving the sediment in place.

IRP Site 30 is also shown on Exhibit B, "Map of the Remedial Actions Taken on the Property." That site was characterized as a "surface trash" site and was found to contain no hazardous substances that required remedial action.

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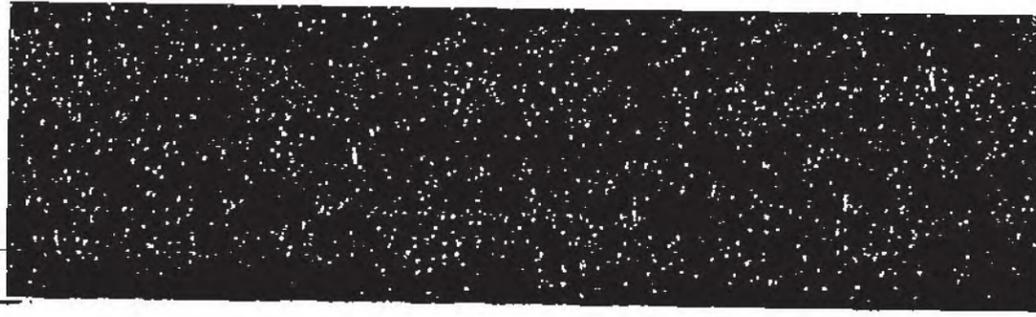
Exhibit B to Quitclaim Deed

Map of Remedial Actions Taken on the Property
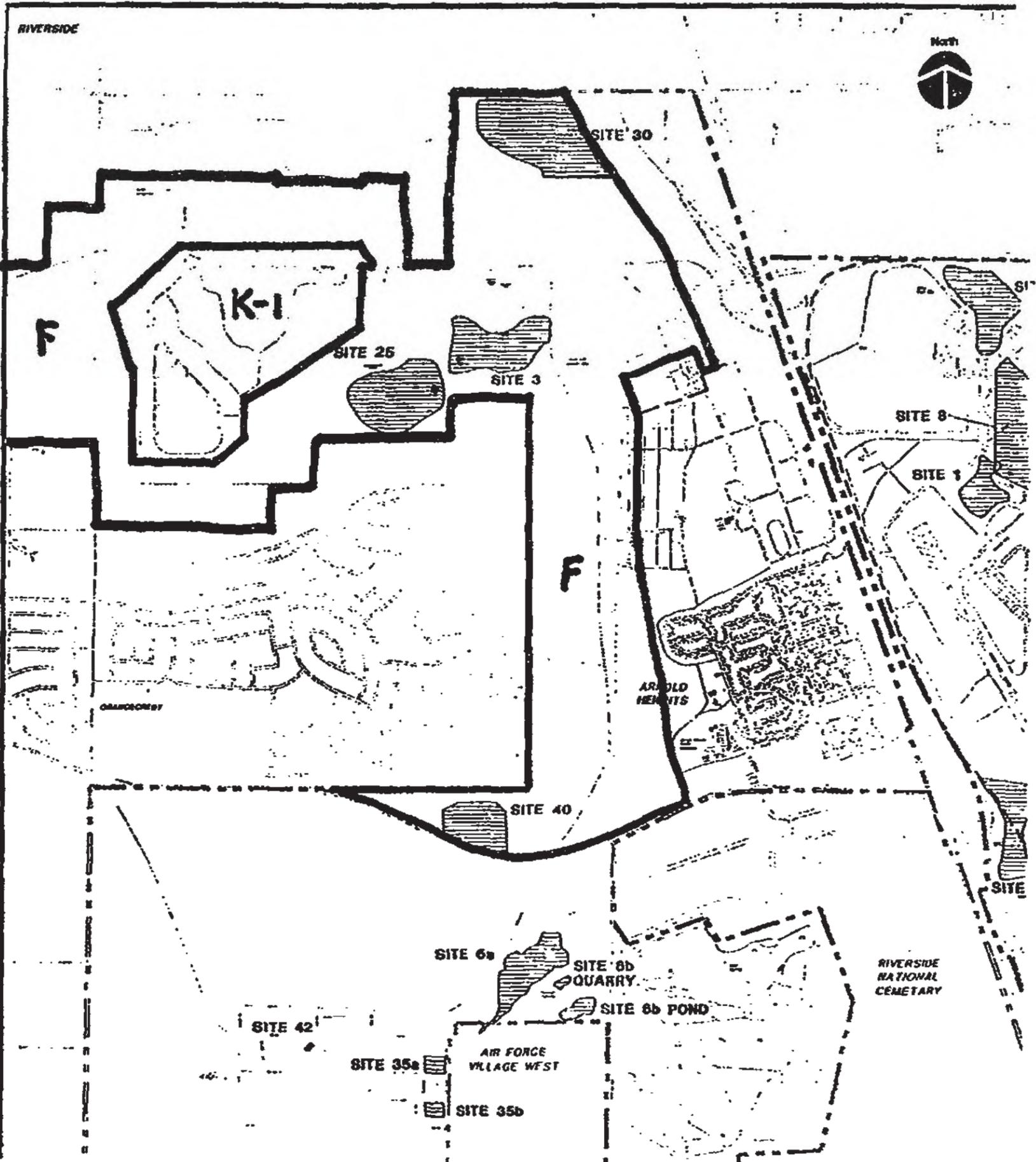
MARCH AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 2226

FORMER MARCH AIR FORCE BASE, CALIFORNIA
OPERABLE UNIT 2
AIR FORCE REAL PROPERTY AGENCY
RECORD OF DECISION

APRIL 2004

FINAL

FORMER MARCH AIR FORCE BASE, CALIFORNIA
OPERABLE UNIT 2
AIR FORCE REAL PROPERTY AGENCY
RECORD OF DECISION
APRIL 2004

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TABLE OF FIGURES

<u>**Table of Contents (continued)**</u>

LIST OF TABLES

Table of Contents (continued)

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LIST OF ACRONYMS

1,1,1-TCA	1,1,1-trichloroethane
1,1-DCE	1,2-dichloroethene
1,2-DCA	1,2-dichlorethane
1,4-DCB	1,4-dichlorobenzene
AFB	Air Force Base
AFHQ	Air Force Headquarters
AFRC	Air Force Reserve Command
AFRPA	Air Force Real Property Agency
AMC	Air Mobility Command
ANG	Air National Guard
ARARs	Applicable or Relevant and Appropriate Requirements
bgs	below ground surface
CE	Civil Engineering
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COPC	Chemical of Potential Concern
COPECs	Chemicals of Potential Ecological Concern
CSF	Cancer Slope Factor
DTSC	Department of Toxic Substances Control
EPA	Environmental Protection Agency
EPN	ethyl-p-nitrophenyl phenyl phosphorothioate
FFA	Federal Facilities Agreement
H&SC	Health and Safety Code
HEAST	Health Effects Assessment Summary Tables
HI	Health Index
HQ	Hazard Quotient
IC	Institutional Control
IRIS	Integrated Risk Information System
IRP	Installation Restoration Program
LOAEL	Lowest Observable Adverse Effects Level
LUC	Land Use Covenant
MCLs	Maximum Contaminant Levels

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MDL	Method Detection Limit
MEK	methyl ethyl ketone
MCPA	(4-chloro – 2-methylphenoxy) acetic acid
MEPP	2- (4-chloro – 2-methylphenoxy) propanoic acid (mecoprop)
μg/kg	micrograms per kilogram
μg/L	microgram per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MSL	Mean Sea Level
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NOAEL	No Observable Adverse Effects Level
NPL	National Priorities List
O&M	Operation and Maintenance
OU	Operable Unit
PAH	polynuclear aromatic hydrocarbon
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene
PRGs	Preliminary Remediation Goals
RAB	Restoration Advisory Board
RCRA	Resource Conservation Recovery Act
RDX	Explosive Residue (Cyclonile)
RfD	Reference Dose
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RTV	Reference Toxicity Value
RWQCB	Regional Water Quality Control Board
SAC	Strategic Air Command
SARA	Superfund Amendments and Reauthorization Act
SF	Slope Factor
SKR	Stephens' Kangaroo Rat
TCE	trichloroethene
TEFs	Toxicity Equivalency Factors
TPH	Total Petroleum Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons

TSDF	Treatment, Storage, and Disposal Facility
UCL	Upper Confidence Limit
USACE	United States Army Corps of Engineers
UST	Underground Storage Tank
VA	Veterans Administration
VOCs	volatile organic compounds

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DECLARATION

SITE NAME AND LOCATION

Air Force Real Property Agency Sites in Operable Unit 2
Former March Air Force Base
Riverside County, California

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial actions for certain Operable Unit 2 (OU2) sites controlled by the Air Force Real Property Agency (AFRPA) at the former March Air Force Base (March AFB), Riverside County, California. The U.S. Air Force (Air Force) developed this Record of Decision (ROD), hereinafter referred to as the AFRPA OU2 ROD in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), [40 Code of Federal Regulations (CFR), Part 300]. This decision document is based on information contained in the Remedial Investigation/Feasibility Study (RI/FS) report for OU2 dated July 1997 and the administrative record for March AFB.

These AFRPA OU2 sites are in areas that have been declared excess property and will be transferred from Air Force control. The remaining OU2 sites are controlled by the Air Force Reserve Command (AFRC). The OU2 sites controlled by the AFRC will be addressed in a separate ROD.

This AFRPA OU2 ROD documents the Air Force's and EPA's selection of remedial alternatives at a total of 15 sites. Institutional Controls (ICs) are required to address waste left in place at four sites, with additional controls required to protect waste cells on one site, and 11 sites do not pose a threat to human health and the environment on the former March AFB. Many of these sites were contaminated with substances such as, solvents, polychlorinated biphenyls (PCBs), polynuclear aromatic hydrocarbons (PAHs), and landfill debris during the earlier years of base operations. These 15 sites are now the responsibility of the AFRPA, which is working to transfer former base property to the community for reuse. The Air Force and EPA are selecting these remedies with the concurrence of the U.S. Environmental Protection Agency (EPA) Region IX and the State of California, under guidelines established in the Federal Facilities Agreement (FFA), signed on 27 September 1990 by representatives of EPA Region IX, the State of California, and the Air Force.

ASSESSMENT OF THE SITES

Actual or threatened releases of hazardous substances from the AFRPA OU2 sites, if not addressed by implementation of the response actions assessed in the OU2 RI/FS and selected in this ROD, may, in some cases, present a current or potential future threat to public health and welfare, and/or the environment, including groundwater resources.

DESCRIPTION OF THE SELECTED RESPONSE ACTIONS

The response actions address the documented principal public health and environmental threats associated with 15 AFRPA sites identified as Installation Restoration Program (IRP) Sites 3, 6, 12, 17, 19, 20, 22, 23, 24, 25, 26, 30, 35, 40, and 42. The locations of these sites are shown in Figure D-1 – Location of OU2 Sites, and a brief site description is included in Table D-1 – Site Status Summary. The southern portion of Site 22 is located in AFRPA-controlled area while the northern portion is located in AFRC-controlled area. However, this site will be not discussed in the AFRPA OU2 ROD. Originally, Site 41, the Hawes site near Barstow, California, was part of OU2. It was later removed from OU2 and will be discussed under a separate decision document. As shown in Figure D-1, Sites 1, 2, 8, 11, 27, 36, 37, and 39 are located in AFRC-controlled areas.

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AFRPA OU2 ROD (former March AFB)

D-3
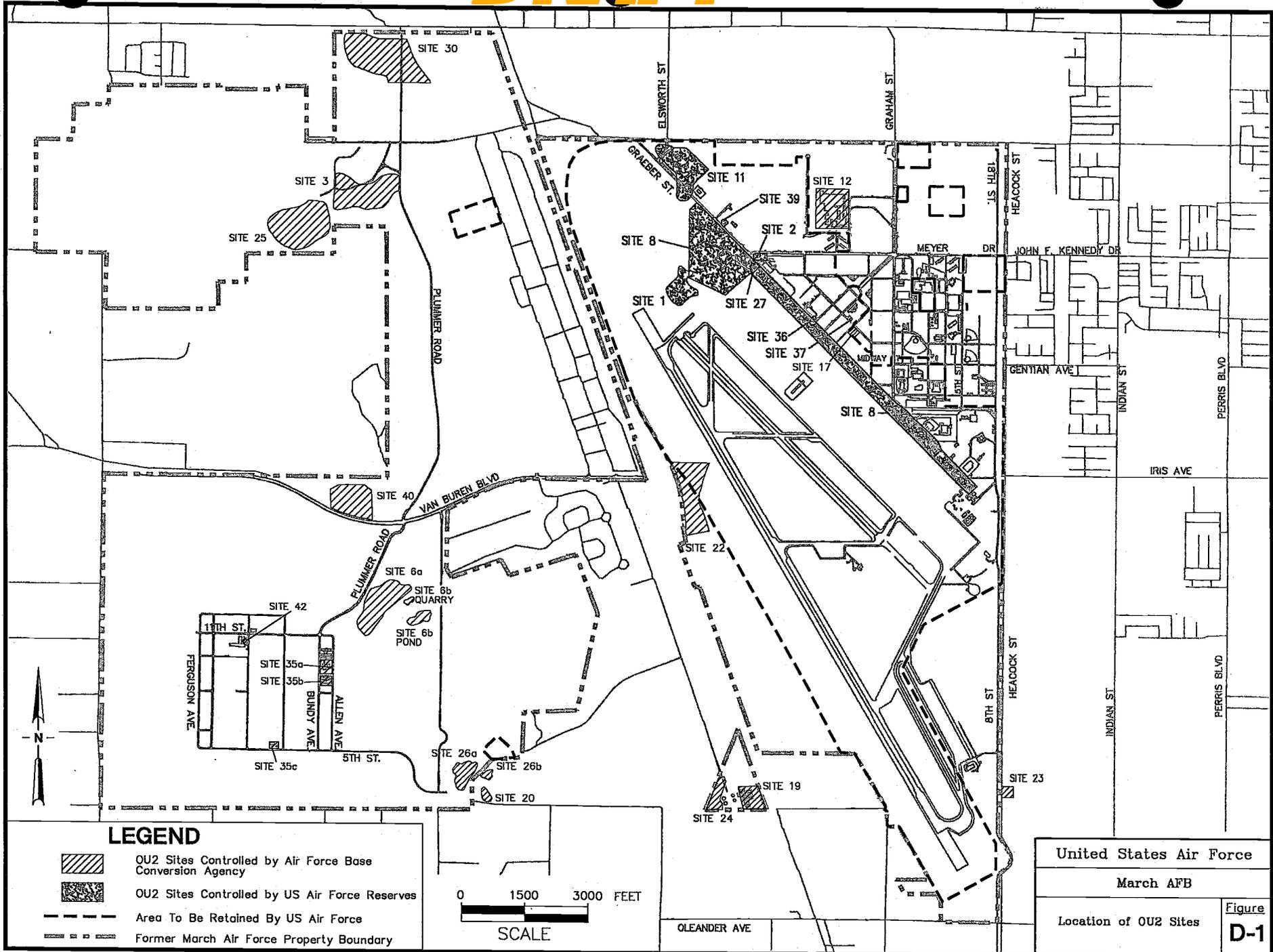
LEGEND

OU2 Sites Controlled by Air Force Base Conversion Agency

OU2 Sites Controlled by US Air Force Reserves
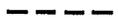
Area To Be Retained By US Air Force
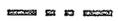
Former March Air Force Property Boundary

SCALE
0   1500   3000 FEET

United States Air Force

March AFB

Location of OU2 Sites

Figure D-1

X:\DATA\A212-24\PROPOSED PLAN\OU2_LOC.DWG 9/11/2000

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TABLE D-1
SITE STATUS SUMMARY
AFRPA-CONTROLLED OU2 SITES

Site No.	Description	Interim Removal Action Performed	Soil Cleanup Action Required	Groundwater Cleanup Action Required	ICs Required
3	Landfill No. 5	Yes	No	No	No
6	Landfill No. 4	Yes	No	No	Yes (land use restrictions, groundwater use restrictions, protection of landfill equipment or systems, and State Land Use Covenant)
12	Civil Engineering Yard	Yes	No	No	Yes (protection of groundwater monitoring equipment or systems; groundwater use restrictions, and State Land Use Covenant)
17	Swimming Pool Fill	Yes	No	No	Yes (land use restrictions, soil disturbance restriction, and State Land Use Covenant)
19	West March Sludge Drying Beds	No	No	No	Yes (land use restrictions, soil disturbance restriction, protection of fences, barriers or signs, and State Land Use Covenant)
20	Landfill No. 7	Yes	No	No	No
22	Landfill No. 2	No	No	No	No
23	East March Effluent Pond	No	No	No	No
24	Landfill No. 1	Yes	No	No	No
25	Munitions Residue Burial Site	Yes	No	No	No
26	Water Treatment Plant Sludge	Yes	No	No	No
30	Construction Rubble Burial Site	No	No	No	No
35	15th Air Force Headquarters Leaking Underground Storage Tanks	Yes	No	No	No
40	Landfill No. 8	Yes	No	No	No
42	Building 3404 Transformers	Yes	No	No	No

Interim removal actions have been performed at 11 sites to mitigate potential risk to human health and the environment from contaminated soils and/or landfill materials. These include Sites 3, 6, 12, 17, 20, 24, 25, 26, 35, 40, and 42. Removal actions have achieved cleanup levels allowing for the unrestricted use of eight sites (3, 20, 24, 25, 26, 35, 40, and 42). Engineered waste cells were constructed at Site 6 and contain contaminated soils from several sites. Residual contamination remains in groundwater at Site 12 and in subsurface soils at Site 17. Surface and near surface soils at Site 19 are contaminated from former operations at the adjacent wastewater treatment facility.

The institutional controls (ICs) alternative, in the form of groundwater and/or land use restrictions and state land use covenants, has been selected for Sites 6, 12, 17 and 19. Site 6 also requires ongoing operations and maintenance of the engineered waste cells, maintenance of the waste cells' associated engineered structures, groundwater sampling to monitor the integrity of the engineered waste cells, and an investigation for landfill gas generation and migration. Descriptions of the selected institutional controls and other requirements for Sites 6, 12, 17 and 19 are provided in Section 9.0 of this AFRPA OU2 ROD. No contamination requiring action was found during remedial investigations at Sites 22, 23, or 30.

As a part of the selected ICs Alternative, the Air Force will execute a State Land Use Covenant with the State before transfer of title to a non-federal entity of property including one or more of Site 6, 12, 17 and 19. The State Land Use Covenant will include the restrictions described in Section 9, legal descriptions of the property and affected areas, and provisions for regulatory agency access. The State Land Use Covenant will be recorded before the recording of the federal deed.

Site descriptions, including site history and primary contaminants encountered and summaries of risk assessments and the selection of remedial alternatives, are provided in Sections 5 through 9 of this AFRPA OU2 ROD.

A variety of applicable cleanup methods were evaluated for each site requiring remediation. A preferred alternative was selected based on a variety of factors, including cost, for each site. A summary of selected alternatives is provided below on a site-specific basis. Five-year reviews to ensure the continued protection of human health and the environment will be required as specified in CERCLA and the FFA.

SOIL CONDITIONS AND CLEANUP METHODS

Sites Requiring No Further Action – Soil

Interim removal actions were conducted at 11 sites (Sites 3, 6, 12, 17, 20, 24, 25, 26, 35, 40 and 42). At Sites 3, 20, 24, 25, 26, 35, 40 and 42, cleanup goals were attained and no further action is necessary to ensure protection of human health and the environment. No further action is also selected for Sites 22, 23, and 30, because no evidence of soil contamination was found or concentrations were below levels necessary to protect human health and the environment.

Sites Requiring ICs

ICs are selected for four sites with residual contamination, including sites where removal actions have occurred.

Site 6 - Landfill No. 4. Elevated levels of polynuclear aromatic hydrocarbons (PAHs), dioxins, volatile organic compounds (VOCs), herbicides, and pesticides were found in Site 6 surface soils. Approximately 89,000 cubic yards of soil and trash were removed from Site 6. This material and non-hazardous soil and wastes removed from several other March AFB sites, approximately 600,000 cubic yards, were placed into two engineered waste cells that were constructed on a portion of Site 6. The cells were capped in January 1996. Restrictions in the deed in the form of grantee covenants will prohibit future residential land use and any activities that could jeopardize the cap or liner's ability to protect the integrity of the waste cells. Additional restrictions are detailed in the existing *Operations and Maintenance Work Plan – Operable Unit 2, Site 6, Landfill No. 4 – March Air Force Base, California* (July 1999) to ensure protection of the engineered waste cells constructed during the 1996 removal action. Within 180 days of the execution of this Record of Decision, the Air Force will submit to the regulatory agencies for review and approval a revised Operations and Maintenance (O&M) Work Plan that include sampling and monitoring requirements for landfill gas in accordance with California Code of Regulations, Title 22 and Title 27. The revised O&M Work Plan will also include requirements of ICs implementation, monitoring, reporting and enforcement. In addition, prior to transfer of title to the property including Site 6, the Air Force will execute a State Land Use Covenant with the State that includes these selected land use restrictions. The State Land Use Covenant will be recorded before the deed to the property.

Site 12 - Civil Engineering Yard. Surface and near-surface soils were contaminated with a variety of hazardous substances, including PAHs and hexavalent chromium. About 2,000 cubic yards of non-hazardous soils were removed from this area and disposed of in the Site 6 engineered waste cells. Post-removal sampling results show residual soil contamination levels at acceptable residential risk levels. Low-level tetrachloroethene (PCE) and trichloroethene (TCE) contamination in the groundwater under Site 12 appears to be confined to a small area within site boundaries. Restrictions in the deed in the form of grantee covenant

will prohibit any activities that would disturb or limit any groundwater monitoring equipment or systems, and prohibit groundwater extraction for any purpose other than monitoring. In addition, prior to transfer of title to the property including Site 12, the Air Force will execute a State Land Use Covenant with the State that includes these selected land use restrictions. The State Land Use Covenant will be recorded before the deed to the property.

Site 17 - Swimming Pool Fill. Elevated levels of polychlorinated biphenyls (PCBs) were found in subsurface soils at depths of 8.5 and 11.5 feet below ground surface (bgs). The PCBs were detected in soil samples collected beneath the concrete floor of the former pool after removal of the pool contents and structures in 1994. Restrictions in the deed in the form of grantee covenants will prohibit future residential land use, and prohibit any activity that will disturb the soil at or below 7 feet below ground surface. In addition, prior to transfer of title to the property including Site 17, the Air Force will execute a State Land Use Covenant with the State that includes these selected land use restrictions. The State Land Use Covenant will be recorded before the deed to the property.

Site 19 - West March Sludge Drying Beds. PAHs, PCBs, thallium, and hexavalent chromium have affected surface and near-surface soils at Site 19. Restrictions in the deed in the form of grantee covenants will prohibit future residential land use, prohibit any activity that will disturb the soil in the former sludge drying pits, and prohibit activities that result in removal, disturbance or other interference with fences or other barriers to access to or signs notifying the public of Site 19. In addition, prior to transfer of title to the property including Site 19, the Air Force will execute a State Land Use Covenant with the State that includes these selected land use restrictions. The State Land Use Covenant will be recorded before the deed to the property.

The total conservatively estimated annual cost to implement the selected remedies (ICs) for the OU2 AFRPA sites is $43,000. No capital costs are associated with the selected remedies for the OU2 AFRPA sites.

STATUTORY DETERMINATIONS

The selected remedy for soil (land use restrictions/institutional controls) for Sites 6, 17, and 19 are protective of human health and the environment. The remedy complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial actions, and is cost effective. However, this remedy does not provide permanent solutions and does not involve alternative treatment technologies. In addition, this remedy does not satisfy the statutory preference for treatment as a principal element because contaminants would be left on-site untreated.

The selected remedy for contaminated groundwater (land use restrictions/institutional controls) at Site 12 is protective of human health and the environment. The remedy complies with federal and state requirements that are legally applicable or relevant and appropriate to the remedial actions, and is cost effective. This remedy does not provide a permanent solution and alternative treatment (other than natural attenuation) or resource recovery technologies to the maximum extent practicable or satisfy the statutory preference for remedies that would result in reduction of toxicity, mobility, or volume of contaminants.

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This AFRPA OU2 ROD may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

Signature
ALBERT F. LOWAS, JR., Director
Air Force Real Property Agency
United States Air Force

May 14, 2004
Date
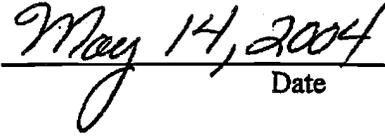
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This AFRPA OU2 ROD may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.
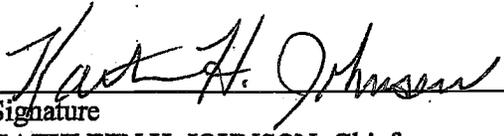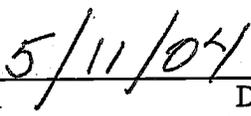
_____   _____5/11/04_____
Signature   Date
KATHLEEN H. JOHNSON, Chief
Federal Facilities and Site Cleanup Branch
U.S. Environmental Protection Agency, Region IX

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This AFRPA OU2 ROD may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

_____   _____
Signature   May 17, 2004
JOHN E. SCANDURA, Chief   Date
Southern California Branch
Office of Military Facilities
Department of Toxic Substances Control
California Environmental Protection Agency

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This AFRPA OU2 ROD may be executed and delivered in any number of counterparts, each of which when executed and delivered shall be deemed to be an original, but such counterparts shall together constitute one and the same document.

Signature

GERARD J. THIBEAULT, Executive Officer
California Regional Water Quality Control Board
Santa Ana Region

5/12/04
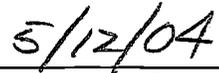
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DECISION SUMMARY:

1.0   SITE NAME, LOCATION & DESCRIPTION

DRAFT

1.0   SITE NAME, LOCATION, & DESCRIPTION

1.1   LOCATION

The former March AFB (or the "Base") is located at the northern end of the Perris Valley, east of the city of Riverside, in Riverside County, California. The Base is approximately 60 miles east of Los Angeles and 90 miles north of San Diego (Figure 1-1). It lies in sections of Township 3 South, Range 4 West and covers portions of the Riverside East, Steele Peak, and Sunnymead quadrangle maps. Interstate 215 (I-215) bisects the Base in a northwest-southeast direction. The portion of the Base east of the freeway is commonly referred to as the Main Base, and the portion to the west is referred to as West March. Realignment of the Base in 1996 established March Air Reserve Base (ARB), a major Air Force Reserve Command (AFRC) base that occupies a majority of the main base portion of March AFB.

When realigned (partially closed) in April 1996, March AFB covered 6,605 acres. It has been used for aircraft maintenance and repair, refueling operations, and training activities since 1918. In 1980, the Installation Restoration Program (IRP) was developed by the Department of Defense as the mechanism for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 U.S.C. Section 9601) process, incorporating applicable RCRA regulations as well as meeting requirements of the National Oil and Hazardous Substance Pollution Contingency Plan (NCP) (40 CFR Part 300). The Air Force conducted a Phase I records search of 30 potentially contaminated IRP sites on the Base. There are now a total of 44 IRP sites at the former March AFB and current March ARB.

The primary contaminants identified in the IRP include chlorinated solvents, fuels, polychlorinated biphenyls (PCBs), and polynuclear aromatic hydrocarbons (PAHs). Contamination by PAHs and PCBs appears to be restricted to surface and near-surface soils whereas fuel hydrocarbons and solvents tend to be predominant contaminants in subsurface soils and groundwater.

The lead agency for cleanup of the closed portions of March AFB is the Air Force. The U.S. Environmental Protection Agency (USEPA), the California Department of Toxic Substances Control (DTSC), and the Santa Ana Regional Water Quality Control Board (RWQCB) are all support agencies for cleanup activities at the Base. The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) identification number assigned to the Base is CA4570024527.

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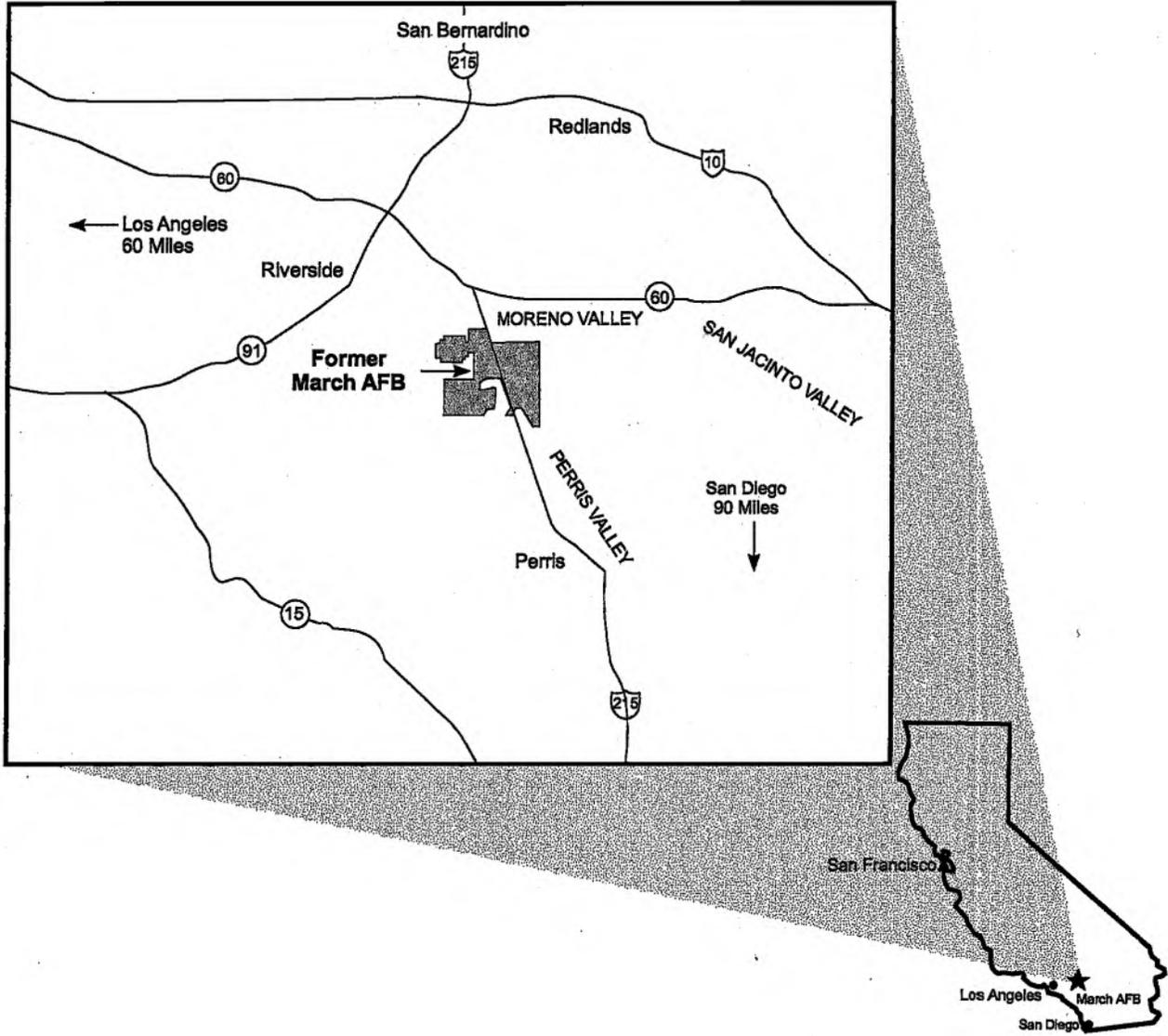
United States Air Force

Former March AFB

Location of Former March Air Force Base

Figure 1-1

X:\GIS\0058-20\LOC_MAP.CDR 8/31/2000

DECISION SUMMARY:
2.0 - SITE HISTORY & ENFORCEMENT ACTIVITIES

2.0　SITE HISTORY & ENFORCEMENT ACTIVITIES

March AFB opened on March 1, 1918, as the Alessandro Aviation Field. This 640-acre facility was used during World War I as a training center for Curtis JN1 "Jenny" aircraft pilots. After World War I, the Base closed for about 4 years and reopened in 1927. By 1938, March AFB was considered the central location for bombing and gunnery training on the West Coast. During World War II, Camp Haan Army Base was constructed along the west side of I-215 (then Highway 395). Camp Haan extended from Alessandro Boulevard south along the Highway to Nandina Avenue and to Barton Street to the west approximately 3 to 4 miles. Camp Haan was an anti-aircraft artillery camp and staging area for General Patton's tank force. At one time, as many as 80,000 personnel were reportedly stationed at Camp Haan, and many of the old building foundations remain. After World War II, a portion of Camp Haan became a part of March AFB. In 1949, the Base became a bomber base under command of the Strategic Air Command. In June 1991, March AFB became an Air Mobility Command installation, with primary missions of air refueling and cargo airlifts. From that time until realignment in 1996, the Base served as a main location for bombers as well as refueling and cargo aircraft. In addition, Air Force Reserve Command (AFRC) and California Air National Guard (ANG) units have operated cargo and fighter missions at the Base.

In 1993, the Base Closure and Realignment Commission designated March AFB for realignment, resulting in the transfer, by April 1996, of most active duty Air Force personnel and aircraft to Travis AFB, California. AFRC and California ANG units remained, and a portion of the Main Base was retained and redesignated as March ARB. Due to realignment, substantial areas of the Base (particularly at West March) will be transferred to civilian agencies, decreasing the 1993 area of the Base by about two-thirds.

The Air Force, at March AFB and elsewhere, has long been engaged in a wide variety of operations involving the use, storage, and disposal of hazardous materials, including fuel and solvents. Past waste disposal practices have resulted in contamination of soil and groundwater at several areas on the Main Base and on West March.

In 1980, the Air Force developed the Installation Restoration Program (IRP) to address soil and groundwater contamination at Air Force bases nationwide. The IRP process at March AFB began in 1983 with a records search that included interviews with Base personnel and research of Base records and historic aerial photographs. The records search identified 30 potentially contaminated sites and recommended further investigation of most of those sites. Since then, numerous investigations have been conducted to delineate contaminants in the soil and groundwater. There are currently 44 IRP sites at the Base, 15 of which are being addressed in the Air Force Real Property Agency (AFRPA) ROD for OU2.

In 1989, USEPA placed the Base on the USEPA National Priorities List (NPL), because of documented groundwater contamination by chlorinated solvents and other contaminants. In September 1990, the Air Force entered a Federal Facilities Agreement (FFA) with the USEPA and the State of California to facilitate the assessment and cleanup process. The FFA establishes procedures for involving federal and state regulatory agencies as well as the public in the restoration process at March AFB. This AFRPA OU2 ROD documents the appropriate institutional controls as well as the implementation and enforcement mechanisms necessary to protect human health and the environment at IRP Sites 6, 12, 17 and 19.

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DECISION SUMMARY:
3.0 - HIGHLIGHTS OF COMMUNITY PARTICIPATION

3.0   HIGHLIGHTS OF COMMUNITY PARTICIPATION

The Draft OU2 Remedial Investigation/Feasibility Study (RI/FS) report was released to the public in November 1996, followed by the Proposed Plan on September 8, 1997. This Proposed Plan will hereinafter be referred to as the 1997 OU2 Proposed Plan. These two documents were listed in the Administrative Record and taken to the information repositories at the Moreno Valley library and Chamber of Commerce. The notice of availability of these documents was published in the Press-Enterprise, the main local newspaper, on September 5, 1997. A fact sheet, condensed from the 1997 OU2 Proposed Plan, was sent to all persons on the March AFB mailing list, which includes Restoration Advisory Board (RAB) members, in May 1998.

The public comment period for the 1997 OU2 Proposed Plan was held from September 8 to October 8, 1997. In addition, a public meeting was held on September 9, 1997. Representatives of the Air Force, the U.S. Environmental Protection Agency (USEPA), the California Department of Toxic Substances Control (DTSC), and the Santa Ana Regional Water Quality Control Board (RWQCB), attended the public meeting to address questions about the OU2 RI/FS and the 1997 OU2 Proposed Plan. The Responsiveness Summary for this 1997 public comment period is included in Appendix A of the two draft OU2 RODs, produced in February 1998 and November 1998, both of which are part of the Administrative Record. Neither of these RODs was finalized or signed.

A new OU2 Proposed Plan, hereinafter referred to as the 2000 OU2 Proposed Plan, supersedes the 1997 OU2 Proposed Plan and addresses only those sites that are the responsibility of the AFRPA. The 2000 OU2 Proposed Plan, which was produced in its entirety, as a fact sheet, was sent to all persons on the March AFB mailing list. The public comment period for the 2000 OU2 Proposed Plan was held between August 23, 2000 and September 22, 2000. A public meeting was held on September 13, 2000 on the 2000 OU2 Proposed Plan. Representatives of the Air Force, USEPA, and California DTSC attended the public meeting to address questions about the 2000 OU2 Proposed Plan.

Responses to comments received during this public comment period are included in the Responsiveness Summary, contained in this AFRPA OU2 ROD (Appendix A). This AFRPA OU2 ROD presents the remedial actions for the OU2 AFRPA sites, located at March AFB, California. Remedial actions were selected in accordance with CERCLA, as amended by Superfund Amendments and Reauthorization Act, and the NCP. Documents relating to the selection of remedial actions for OU2 AFRPA sites at March AFB are listed in the Administrative Record Index, provided in Appendix B. Public participation in the decision-making process for OU2 AFRPA sites complied with the requirements of CERCLA §113(k)(2)(B)(I-v), 117, and the NCP 40 CFR §300.430(f)(3).

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DECISION SUMMARY:
4.0 – SCOPE & ROLE OF OPERABLE UNIT 2 – AFRPA SITES

4.0 SCOPE & ROLE OF OPERABLE UNIT 2 – AFRPA SITES

At March AFB, aircraft maintenance, fuel storage operations, fire-training exercises, and regular Base operations have generated a variety of hazardous wastes. Past waste disposal practices have contaminated soil and groundwater in several areas on the Base. In 1989, March AFB became a Superfund site when it was added to the USEPA National Priorities List (NPL), encompassing 40 separate sites (Figure 4-1). As with many Superfund sites, the contamination issues at March AFB are complex. As a result, the work has been organized into operable units.

Three Operable Units (OU1, OU2, and OU3) were created to facilitate the restoration process. Categorization of OUs was based primarily on geographical location and similarities in contaminant types and distribution. The location of OU1, OU2, and OU3 sites are shown in Figure 4-1.

OU1 encompassed Sites 4, 5, 7, 9, 10, 13, 14, 15, 16, 18, 29, 31, 34, and 38. Sites 21 and 23 were initially included in OU1, but Site 23 was transferred to OU2, and Site 21 will be addressed in another AFRPA decision document. OU1 also includes the off-base portion of the groundwater plume at the eastern Base boundary. A ROD was issued for OU1 in June of 1996 which addresses: 1) soil at Sites 10, 15, 18, 31 and 34; and 2) groundwater at Sites 4, 18 and 31 and the combined OU1 groundwater plume.

OU2 originally included Sites 1, 2, 3, 6, 8, 11, 12, 17, 19, 20, 22, 23, 24, 25, 26, 27, 28, 30, 32, 35, 36, 37, 39, 40, 41 and 42. Sites 28 and 32 were originally listed in the FFA as OU2 sites. Site 28 was a network of monitoring wells (28MW1 through 28MW10) dispersed throughout the Main Base. Since Site 28 was not an identified source of contamination, a separate investigation for Site 28 was not required and this site will not be discussed further in this document. Site 32 was loosely described as areas of construction debris for which locations were not specified. Several specific construction debris sources were identified at some OU2 sites, such as Sites 17, 20, and 30. No other specific locations were identified for inclusion in the remedial investigation/feasibility study (RI/FS), and further investigation of Site 32 was not required.

An RI/FS was prepared for OU2 sites between 1992 and 1997. The main objectives of the OU2 RI were to collect additional data to confirm contaminant source areas, to delineate contaminant boundaries, to assess potential risks to human health and the environment, and to evaluate remedial alternatives for soil and groundwater cleanup. In February 1998, a draft ROD was issued for all of the OU2 sites to meet the FFA deadline. A draft final OU2 ROD was issued in November 1998.

Since issuance of the draft final OU2 ROD, the Air Force has separated the OU2 ROD into an AFRPA ROD and an AFRC ROD. This separation of the RODs is intended to expedite the transfer of AFRPA-controlled land to the community.

This AFRPA OU2 ROD addresses only the OU2 sites, primarily located on West March, managed by the AFRPA (Sites 3, 6, 12, 17, 19, 20, 26, 22, 23, 24, 25, 30, 35, 40, and 42 [Figure D-1]). The sites included in this document are in areas that have been declared excess property and will be transferred from Air Force control. The remaining OU2 sites are in the AFRC cantonment property. The sites in OU2 not addressed in this document will be described in a separate decision document or documents for the OU2 sites that are managed by the AFRC. A listing of the sites and the agency managing each site is provided in Table 4-1. A summary of the current status of the OU2 sites addressed in this document is included in Table 4-2.

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OU3 consists of IRP Site 33 (Panero Aircraft Fueling System). Soil and groundwater in OU3 have been contaminated by jet fuel. A Decision Document was issued for OU3 in October of 1996, which addresses the soil and groundwater contamination. The Decision Document for OU3 was intended to upgrade the ongoing jet fuel removal and increase the removal rate.

Sites 21, 41, 43 and 44, Site L, and Environmental Baseline Survey sites such as former transformer areas and a former power generator facility will be addressed in a future AFRPA decision document.

Sites 6c, 6d, and 6e were abandoned quarries located on Air Force Village West, south of Site 6b, reportedly filled with domestic solid waste, demolition debris, and, potentially, industrial wastes believed to be from March AFB activities. Site 6c was approximately 6 acres in size and Site 6d was approximately 8.7 acres in size. Wastes in Sites 6c and 6d were excavated and transported to the Site 6 engineered waste cell for disposal. The excavated materials included demolition debris, domestic wastes, and soils. Site 6c contained about 22,300 cubic yards of waste. Site 6d contained about 35 cubic yards of waste in a few small debris piles. Site 6e was reportedly about 2 acres in size and the area was developed into housing in the late 1980's. During development of Air Force Village West in approximately 1989 to 1991, the Site 6e quarry was backfilled. No information is available regarding the quantity or disposition of waste, if any, from Site 6e. (IT Corporation 1997a)

Confirmation soil samples were taken from the base of the excavations in Sites 6c and 6d. Constituent concentrations, with the exception of arsenic and beryllium, were either below EPA Region IX residential PRGs or were not detected. Arsenic concentrations in most samples were at levels above residential PRGs, but were within the range of background arsenic levels for West March AFB. Concentrations of beryllium in some samples also exceeded the residential PRGs, but were within the range of background beryllium levels for West March AFB. (IT Corporation 1997a)

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RIVERSIDE

MORENO VALLEY

SITE 30

SITE 25

SITE 3

SITE 11

SITE 12

SITE 39

SITE 8

SITE 2

SITE 1

SITE 27

SITE 36

SITE 37

SITE 17

SITE 4

SITE 8

SITE 31

ORANGECREST

SITE 40

ARNOLD HEIGHTS

SITE 33

SITE 34

SITE 14

SITE 16

SITE 29

SITE 6a

SITE 6b QUARRY

SITE 6b POND

RIVERSIDE NATIONAL CEMETARY

SITE 22

SITE 10

SITE 9

SITE 13

SITE 5

SITE 18

SITE 15

SITE 42

SITE 35a

AIR FORCE VILLAGE WEST

SITE 7

SITE 35b

SITE 35c

SITE 26a

SITE 26b

SITE 20

SITE 24

SITE 19

SITE 38

SITE 23

LEGEND

OU1 Sites

OU2 Sites

OU3 Sites

Base Boundary

Areas To Be Retained By The Air Force

0   1000   2000 FEET

SCALE

—N—

X:\DATA\X212-2A\FINAL ROD\FIG_4-1.DWG 10/4/2000
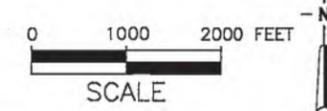
United States Air Force

March ARB

Locations of Operable Units 1, 2, and 3 Sites

Figure 4-1

TABLE 4-1
OU2 SITES

Site No.	Description	Managing Agency
1	Aircraft Isolation Area	Air Force Reserve Command
2	Waste Oil Tanks/Solvent Pits	Air Force Reserve Command
3	Landfill No. 5	Air Force Real Property Agency
6	Landfill No. 4	Air Force Real Property Agency
8	Flightline Shop Zone	Air Force Reserve Command
11	Bulk Fuel Storage Area	Air Force Reserve Command
12	Civil Engineering Yard	Air Force Real Property Agency
17	Swimming Pool Fill	Air Force Real Property Agency
19	West March Sludge Drying Beds	Air Force Real Property Agency
20	Landfill No. 7	Air Force Real Property Agency
22	Landfill No. 2	Air Force Real Property Agency
23	East March Effluent Pond	Air Force Real Property Agency
24	Landfill No. 1	Air Force Real Property Agency
25	Munitions Residue Burial Site	Air Force Real Property Agency
26	Water Treatment Sludge	Air Force Real Property Agency
27	Building 422 Underground POL Tanks	Air Force Reserve Command
28[1]	Main Base Monitoring Well Network	Air Force Reserve Command
30	Construction Rubble Burial Site	Air Force Real Property Agency
32	Construction Debris Areas	Air Force Real Property Agency
35	15th Air Force Headquarters Leaking Underground Storage Tanks	Air Force Real Property Agency
36	Building 458 Leach Pit	Air Force Reserve Command
37	PCB Spill at Building 317	Air Force Reserve Command
39	Abandoned Gas Station	Air Force Reserve Command
40	Landfill No. 8	Air Force Real Property Agency
41	Hawes Site	Air Force Real Property Agency [2]
42	Building 3404 Transformers	Air Force Real Property Agency

Notes: [1]Investigated by potential source areas such as Site 2 and Site 8. Required remedial action for these sources is provided under the site containing the source.
[2] Site 41 will be discussed in a separate decision document.

TABLE 4-2
SITE STATUS SUMMARY
OU2 SITES MANAGED BY AFRPA

Site No.	Interim Removal Action Performed	Institutional Controls Required
3	Yes	No, unrestricted land use
6	Yes	Yes (land use restrictions, SLUC[1] and groundwater monitoring)
12	Yes	Yes (groundwater monitoring and use restrictions[2]; land use restrictions and SLUC[1])
17	Yes	Yes (land use restrictions and SLUC[1])
19	No	Yes (land use restrictions and SLUC[1])
20	Yes	No, unrestricted land use
22	No	No, unrestricted land use
23	No	No, unrestricted land use
24	Yes	No, unrestricted land use
25	Yes	No, unrestricted land use
26	Yes	No, unrestricted land use
30	No	No, unrestricted land use
35	Yes	No, unrestricted land use
40	Yes	No, unrestricted land use
42	Yes	No, unrestricted land use

Notes: [1]State Land Use Covenant
           [2]Until concentrations are below maximum contaminant levels.

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DECISION SUMMARY:
5.0 - SUMMARY OF CHARACTERISTICS

5.0 SUMMARY OF SITE CHARACTERISTICS

5.1 SITE CHARACTERISTICS

The following section presents a brief overview of the site characteristics of each OU2 site located outside the cantonment area and controlled by AFRPA. Detailed information is presented in Section 3.0 of the OU2 RI/FS (Tetra Tech, Inc. 1997a).

5.1.1 Site 3 – Landfill No. 5.

Site 3 is a former 23-acre landfill located south of Cactus Avenue and west of Plummer Road (Figure 4-1). The physical site setting consists of thin alluvial cover over shallow granitic bedrock at varying depth. Outcrops of granitic rock surround the site. Two major, intermittent, surface drainage channels flow through the site. Both of these drainages originate west of the site and flow northeast. A potential jurisdictional wetland occupies a portion of the site in the drainages. Groundwater at Site 3 is present within the weathered granitic rock and in the alluvium. Groundwater flow is generally towards the northeast. Aquifer conditions are unconfined. The groundwater is found at about 15 to 25 feet bgs. Riparian vegetation is found in the drainage areas. Site 3 is located in the 1,300-acre Stephens' Kangaroo Rat (SKR) reserve.

The Site 3 landfill was used from 1954 through 1974. The landfill received household and dumpster waste, construction debris, and military waste from the Base. The military wastes included empty tanks, spent munitions, and miscellaneous wastes such as parachutes, medical waste, and fire hoses. Some of the contaminants found in the wastes included volatile organic compounds, pesticides, PCBs, PAHs, and munitions residues. The Air Force was concerned that the waste in the landfill might contaminate the soil and groundwater. After discussions with the regulatory agencies and the public, a decision was made to clean up the site by removing the landfilled waste.

An interim removal action was completed in late 1995 and early 1996 (IT Corporation 1997b). Approximately 223,200 cubic yards of landfilled materials and soil were removed. Excavated materials from Site 3 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 3 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. Materials not meeting the CCR Title 23, Section 2523 requirements were sent off base for disposal. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment. No restrictions on land use are required. The results of the confirmation sampling are discussed in Section 6, Summary of Site Risks.

After the interim removal action, the site was restored by backfilling with clean soil and revegetating the site. In general, knolls and higher areas of excavation were covered with approximately 3 feet of soil and slopes adjacent to drainages were covered with 2 feet of soil. Low-lying drainages were covered with 6 inches of soil. The site was revegetated with a seed mix approved by the U.S. Fish and Wildlife Service. The 0.2 acres of wetland disturbed by the interim removal action were backfilled with 2 feet of soil and revegetated.

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5.1.2   Site 6 – Landfill 4.

Site 6 is located on West March, north of the Air Force Village West residential development, south of Van Buren Boulevard, east of Plummer Road, and west of Air Force Village West Drive (Figure 4-1 and Figure 5-1). The landfill comprised three discrete areas: Site 6a (approximately 15 acres) the location of the main former landfill area; Site 6b Quarry (approximately 0.6 acre) the location of a former quarry; and Site 6b Pond (approximately 2.6 acres) the location of a pond.

The topography at Site 6 consists of gently rolling hills incised by drainage gullies. Rock outcrops are scattered over the area and, where covered with alluvium, the depth to weathered granitic bedrock is relatively shallow. Groundwater at Site 6 is unconfined at depths ranging from approximately 10 to 38 feet bgs. Groundwater flows toward the east-northeast. Surface water at Site 6 generally drains toward the east-northeast through two natural drainage channels. Site 6b Pond contains standing water and is surrounded by riparian vegetation. The Site 6b Pond below elevation 1,629 feet mean sea level (MSL) is a jurisdictional wetland.

Site 6 was used by March AFB from the early 1950s to the early 1980s for disposal of household waste and construction debris. Polycnuclear aromatic hydrocarbons (PAHs), PCBs, pesticides, herbicides, and dioxins were found in samples of soil and water collected during the OU2 RI. An interim removal action was conducted in 1995; approximately 63,000 cubic yards of waste were removed from Site 6a and temporarily stockpiled (IT Corporation 1997c). Waste at Site 6a was removed from the vadose zone and beneath groundwater including soil contaminated with petroleum hydrocarbons. Waste was also removed from the pond, including debris and tar. Two engineered waste cells, over 12 acres in size, were constructed in the Site 6a area (Figure 5-1). No confirmation samples were taken of soils and bedrock under Site 6a because the bottom of the excavation was below the water table and sample results would not be meaningful. This site was treated as a closure in place rather than a clean closure. Stockpiled waste from Site 6a was landfilled back into the engineered waste cells over Site 6a. Excavated materials from Site 6a to be disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 6a placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill.

The engineered waste cells built at Site 6 meet federal and state environmental standards (IT Corporation 1995 and IT Corporation 1997c and d). Only non-hazardous waste, as defined in CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) from various sites, primarily Sites 1, 3, 6, 12, 20, 24, 25, 26, 40, and other sites was placed in the waste cells. The engineered waste cells at Site 6 contain: petroleum contaminated soil; domestic trash; lime sludge; construction debris; military wastes; as well as soil with PAHs, PCBs, dioxins, organochlorine pesticides; organophosphorus pesticides; lead; hexavalent chromium; cadmium, arsenic, antimony, munitions residues (RDX and nitroguanadine); and volatile and semivolatile organic compounds. The engineered waste cells have a volume of about 600,000 cubic yards. The soil cap placed over the engineered waste cells prevents potential receptor exposure to the waste. A liner, subdrain, and leachate collection systems installed beneath the landfill act as a barrier to protect the groundwater beneath the site. The site requires periodic inspections of the landfill cap and engineered structures to maintain the integrity of the engineered waste cells, as well as monitoring of groundwater.

SITE 40

× 5M40MW3
1657.11

× 5M40MW2
1639.39

VAN BUREN BLVD.

VAN BUREN BLVD.   CULVERT

1590

1595

1600

1605

1610

1615

1620

MANHOLE NO.1

21ST ST.

5M6MW1 × — MANHOLE NO.2

6M6MW5
1619.84

6M6MW1
1631.73

5M6MW2
1618.33

6M6MW6
1618.94

× 6M6MW4

6MW3
1602.79

6150

CELL B

6M6MW7
1620.33

5M6MW3 ×

SITE 6b
QUARRY

6105

5M6MW5
1649.70

CELL A

SANITARY LANDFILL

1625

5M6MW7
1619.75

9

6MW2
1620.15

SITE 6a

1630
1635
1640
1645
1650

5M6MW6
1626.33

3411

PLUMMER ROAD

3410

6M6MW3
1656.93

SITE 6b POND

6M6MW2
1624.90

1665
1660
1655
1670

AIR FORCE
VILLAGE WEST

ALLEN AVE.

3413
3407

3401
3402

BH10
1683.72

VILLAGE WEST DRIVE

6MW1
1625.01

9

LEMAY
MITCHELL CIR
EAKER CIR
DOOLITTLE CIR
AVE.
DIR.

LEGEND

—1660— Groundwater Elevation Contour
(ft–MSL; September 1997)

──── Original IRP Site 6 Boundary

──── Approximate Overlay of
Site 6 Waste Cell

──∅── Approximate Overlay of
Subdrain System and Manholes

● Monitoring Well

⊙ Background Well

✪ Point of Compliance Well

× Destroyed Well

0   250   500 FEET

SCALE

—N—

United States Air Force

March AFB

Site 6
Site Boundaries

Figure
5-1

X:\GIS\A212–24\FINAL ROD\FIG_5-1.DWG   10/4/2000

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Landfilled debris associated with Site 6b Pond and Site 6b Quarry, approximately 19,300 cubic yards of debris and soil, was removed and deposited in the Site 6 engineered waste cells (IT Corporation 1997d). Approximately 2,480 tons of soil or sediment impacted by oil and tar and 4,770 tons of waste were removed from the sites and disposed of off the Base. Excavated materials from Site 6b to be disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans.

According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 6b placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. Confirmation samples of the soil and bedrock were taken. The results confirmed that Site 6b Pond and Site 6b Quarry had been cleaned to levels protective of human health and the environment. No restriction on future use of the land is required. The results of the confirmation sampling are discussed in Section 6, Summary of Site Risks.

After the interim removal action, Site 6b was restored by regrading with alluvium and decomposed granite and revegetating the site. Excavation slopes were graded to a 2 to 1 ratio with a bench midway up the slope. Hydroseeding was performed and erosion mats were laid for slope protection. In the Site 6b Pond area, the existing wetland was expanded to 0.75 acres and the area was revegetated with wetland trees and plants per an approved restoration plan (IT Corporation 1997a).

5.1.3   Site 12 – Civil Engineering Yard.

Site 12, the 20-acre Base Civil Engineering Yard, is located north of MacDill Street, between Lackland Avenue and Travis Avenue (Figure 4-1 and Figure 5-2). The area is developed with numerous structures and is partially paved with asphalt. Bedrock was not encountered during investigations at Site 12. The ground surface at Site 12 is generally flat, sloping gently toward the south. Surface drainage within the paved area is collected by a system of drain inlets and pipes that drain to the south. The depth to groundwater is approximately 40 feet and has risen over 10 feet since 1993. The direction of groundwater flow is to the west and southwest.

From the 1950's to 1996, Site 12 was the civil engineering yard for general maintenance operations for March AFB (Figure 5-2). It included a carpentry shop, electrical shop, paint shop, pesticide shop, and storage areas for heavy equipment. These shops used and stored a variety of hazardous materials including paints and paint-related products, pesticides, solvents, acids, and drums labeled hazardous waste.

During the OU2 RI, PAHs and hexavalent chromium were found in soil samples. The contaminant 1,1-dichloroethene (1,1-DCE) was found in soil vapor samples in a small area in deeper soils near Building 2507 (Figure 5-2). Groundwater beneath Site 12 has become impacted by trichloroethene (TCE) and tetrachloroethene (PCE). The groundwater contamination is in a small area and is only slightly above maximum contaminant levels (MCLs). Periodic monitoring of the groundwater to observe changes in contaminant concentrations is being conducted.

After discussions with the regulatory agencies and the public, a limited interim removal action was taken in 1996 to ensure that the site could be used for industrial purposes by removing soils contaminated with PAHs and hexavalent chromium at the northwest portion of Site 12 (IT Corporation 1997e). Approximately 2,000 cubic yards (erroneously reported as 3,000 cubic yards in the 2000 Proposed Plan) of non-hazardous contaminated soil was excavated from a small area in the northwest portion of the site and placed in the engineered waste cells at Site 6. Excavated materials from Site 12 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and prior to excavation activities for the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 12 placed in the Site 6 engineered waste cells met the requirements of

CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. The excavations were backfilled with clean soil. Soil contaminated with petroleum hydrocarbons was not removed from areas under a drum storage area and beneath the asphalt paving near a removed washbasin (Figure 5-2). Confirmation soil samples were collected from the base of the excavations and the excavation sidewalls under the drum storage area and asphalt paving after the interim removal action. The results of the confirmation sampling confirmed that an industrial land use is appropriate. The results of confirmation sampling demonstrate that industrial PRGs were met. The results are discussed in Section 6, Summary of Site Risks.

5.1.4   Site 17 – Swimming Pool Fill.

Site 17 is a former Base swimming pool located on the Main Base on U Street between DeKay and K Streets (Figure 4-1 and Figure 5-3). The area is vacant land, adjoining Base housing to the east and south. Bedrock was not encountered during investigations at Site 17. The ground surface at Site 17 is generally flat. The depth to groundwater is approximately 45 to 50 feet and has risen since 1993. The direction of groundwater flow is to the south.

The former swimming pool at Site 17 was closed in the 1970s. After it was closed, the pool was used as a disposal site and the wastes were covered with soil. After discussions with the regulatory agencies and the public, a decision was made to clean the site by removing the waste. The pool and its contents were removed during a 1994 interim removal action (Tetra Tech, Inc 1994). The wastes were taken off the Base for disposal. After the interim removal action, low levels of PCBs were still detected in soils at least 8 feet beneath the ground surface. The pool excavation was filled with clean soil, leaving the PCBs in place. No PCB contamination has been found in the groundwater and the PCBs are not expected to migrate to groundwater. Confirmation sampling conducted after the interim removal action demonstrated that PCBs remain at the site at levels of concern to human health (Tetra Tech, Inc. 1994 and 1997a). The results of confirmation sampling are further discussed in Section 6, Summary of Site Risks.

5.1.5   Site 19 – West March Sludge Drying Beds.

Site 19 is about 7 acres in size, located at the southern end of West March (Figure 4-1 and Figure 5-4), east of the active wastewater treatment plant. The site is generally vacant land with four concrete lined drying beds in the western portion of the site. Bedrock was not encountered during investigations at the site. The topography of the site is flat with a gentle slope to the east. Surface water drains toward the east into an unlined channel. Groundwater beneath Site 19 is in unconfined conditions at a depth of about 15 feet. Water levels show significant seasonal fluctuations, with higher levels measured during and after wet seasons. Groundwater flow direction is primarily to the east.

Site 19 contains the four active lined sludge-drying beds and three inactive, unlined sludge-drying beds associated with the wastewater treatment plant (Figure 4-1 and Figure 5-4). The plant was constructed in 1941 and used to process the wastewater from Camp Haan and March AFB. A total of 10 sludge-drying beds have historically been used at the site. Three of these beds have been backfilled. In 1990 when the plant was upgraded, four lined drying beds were constructed at the location of previously unlined beds.

In the past, wastewater treatment sludge was spread out in the unlined drying beds to dry. When dry, the sludge was removed from the drying beds. Recently, the dried sludge has been removed from the Base for disposal. Past disposal practices are unknown. PAHs, PCBs, hexavalent chromium, and thallium were found in soil samples in the area of the unlined sludge beds at levels above residential PRGs. The sampling results for Site 19 are discussed in Section 6, Summary of Site Risks.

APPROXIMATE SITE BOUNDARY

DIRT ROAD

STORAGE

AREA OF OLD DRUMS, OLD TRANSFORMER CASES, EQUIPMENT & MATERIALS

REMOVED WASH RACK

DRUM STORAGE

HAZARDOUS MATERIAL STORAGE AREA

DRAIN

REMOVED WASH BASIN (CONCRETE)

SUMP

2513

CONSTRUCTION MATERIALS

TRUCK & EQUIPMENT STORAGE (many pavement stains)

2514

HAZARDOUS MATERIALS STORAGE

REPORTED WASTE OIL BURIAL TRENCH (PER RFA)

PLANTER/ SOIL PILE

DRUM STORAGE

TRAILER

2519

2510

2509

DRAIN INLET (clogged with paint)

TOILET STORAGE AREA

2517

2518

2512 ELECTRICAL SHOP

2560

2507

PEST MANAGEMENT SHOP

WASTE ACCUMULATION POINT

CONCRETE PAD

pavement stains

LUBE OIL DRUM STORAGE AREA

PAINT SHOP 2508

PAINT MATERIALS (STORAGE)

535

2506

2507

2558

CHANUTE AVENUE

LACKLAND AVENUE

TRAVIS AVENUE

FAIRCHILD AVENUE
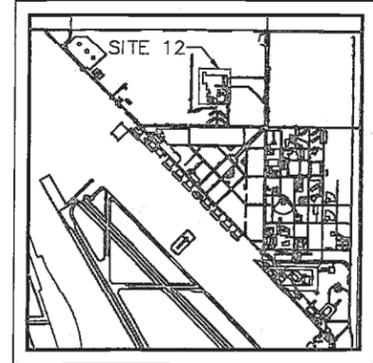
SITE 12

SCALE : 1"=5000'

LEGEND

- - - Approximate Site Boundary
///// Reported Waste Oil Burial Trench
····· Paved Area
→ Unlined Swale
RFA: RCRA Facilities Assessment

N

0 50 100 FEET
SCALE

X:\GIS\A212-2A\FINAL ROD\FIG_5-2.DWG 10/4/2000
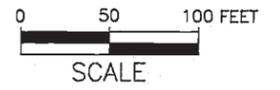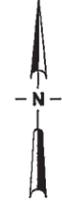
United States Air Force

March ARB

Site 12
Civil Engineering Yard
Site Location Map

Figure 5-2
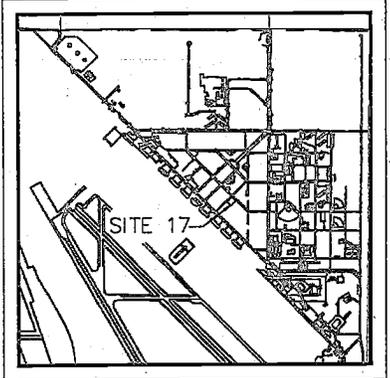
SCALE : 1"=5000'

SITE 17

DEKAY AVE

U ST

K ST

POOL

334

333

335

346

344

345

APPROXIMATE
SITE BOUNDARY

-N-

0   25   50 FEET
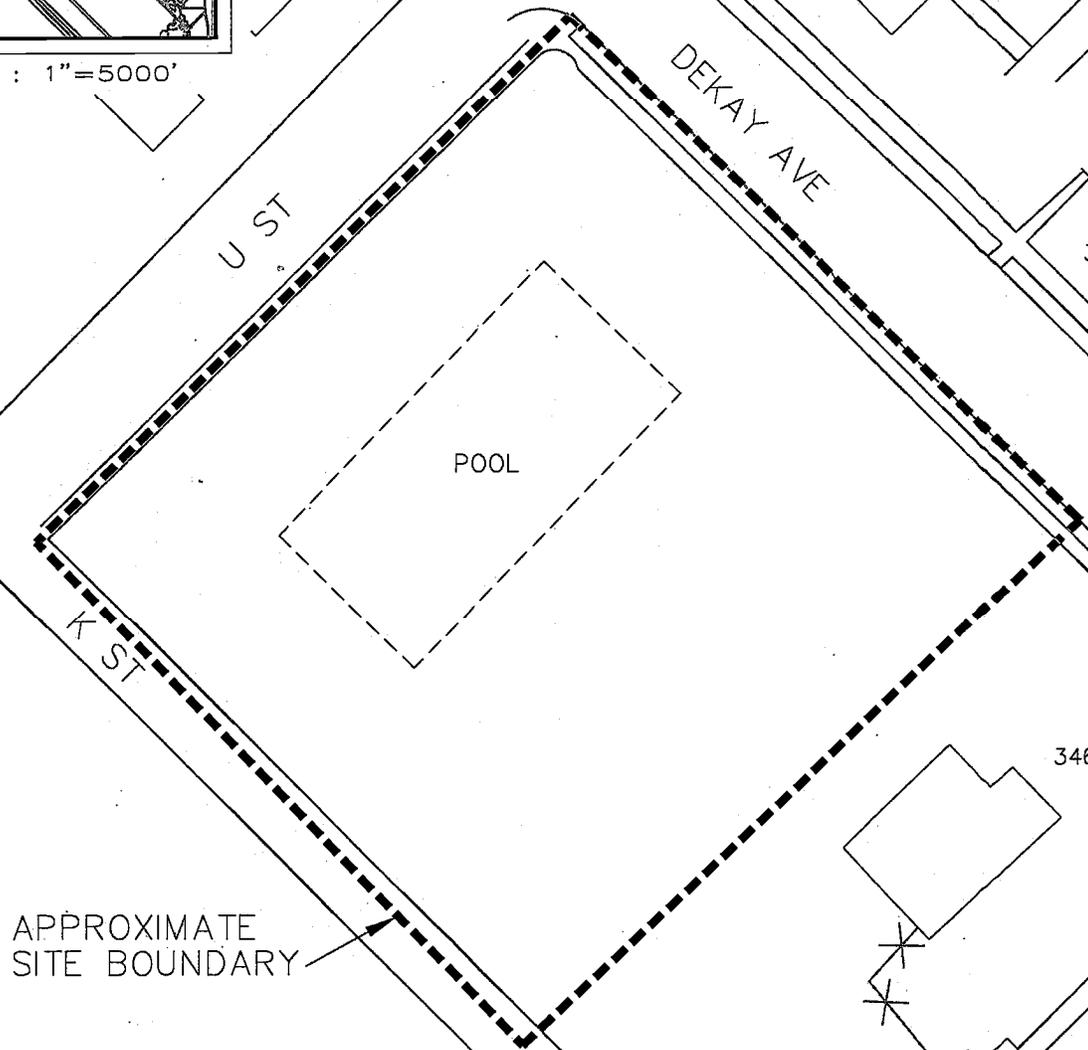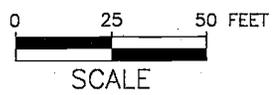
SCALE

United States Air Force

March ARB

Site 17
Swimming Pool Fill
Activity Locations

Figure

5-3

X: \GIS\A212-24\FINAL ROD\FIG_5-3.DWG 10/4/2000

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RETENTION POND

BASE BOUNDARY

Drainage Ditch

SITE 19

SCALE : 1"=5000'

SDB-1

SDB-2

SDB-10

SDB-3

SDB-9

Former Sludge Pile

SDB-4

SDB-8

SDB-5

Digesters

SDB-6

SDB-7

I-215

LEGEND

- - - Approximate Site Boundary

☐ Active Sludge Drying Bed

▨ Inactive Sludge Drying Bed

▨ Former Sludge Drying Bed (backfilled)

SDB=Sludge Drying Bed

- N -

| 0 | 50 | 100 FEET |

SCALE
CONTOUR INTERVAL
1 FOOT
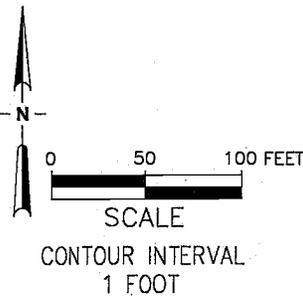
United States Air Force

March ARB

Site 19
West March
Sludge Drying Beds
Site Plan

Figure
5-4

X:\GIS\A212-24\FINAL ROD\FIG_5-4.DWG   9/27/2000

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5.1.6 Site 20 – Landfill No. 7.

Site 20 is located adjacent to the southwest portion of March AFB, on the property acquired by the Department of Veterans Affairs from the Air Force in the 1970s (Figure 4-1). The topography at Site 20 consists of gently rolling hills incised by drainage gullies. Rock outcrops are scattered over the area and, where covered with alluvium, the depth to weathered granitic bedrock is relatively shallow. Groundwater at Site 20 is in unconfined conditions at depths ranging from approximately 12 to 43 feet bgs. Groundwater flows toward the northeast. Surface water drains to a prominent east-west ravine south of the landfill, which drains to the east.

Site 20 is a former landfill about 7 acres in size used between 1958 and 1965 as a disposal site for household waste and construction debris. Some of the chemicals found in the soils at Site 20 included PAHs, dieldrin, PCBs, and 1,4-dichlorobenzene. The Air Force was concerned the waste in the landfill could contaminate soil and groundwater. After discussions with the regulatory agencies and the public, a decision was made to clean up the site by removing the landfilled waste. The interim removal action at Site 20 was conducted in conjunction with the removal of dried sludge at Site 26a and 26b. Dried sludge of Site 26b covered a portion of Site 20.

Approximately 116,000 cubic yards of non-hazardous soil, debris, and dried sludge were removed from Sites 20 and 26 in 1996 and placed in the engineered waste cells at Site 6 (IT Corporation 1997f). Excavated materials from Site 20 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 20 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. After the waste was removed from Site 20, confirmation samples from beneath the former landfill were tested. The results confirmed that the site had been cleaned to levels protective of human health and the environment. No restriction on future use of the land is required. The results of the confirmation sampling are further discussed in Section 6, Summary of Site Risks.

After the interim removal action, Sites 20 and 26b were restored by grading the sites and reseeding with a seed mix approved by the U.S. Fish and Wildlife Service.

5.1.7 Site 22 – Landfill No. 2.

Site 22 is a suspected former landfill east of and adjacent to Interstate 215 (Figure 4-1). The site occupies essentially flat terrain. The general surface water drainage in the area is to the southeast following the gently sloping terrain. Bedrock was not encountered during investigations at Site 22. Groundwater at Site 22 is unconfined at a depth of about 25 feet bgs and the depth to groundwater has decreased since 1993.

The original 7-acre area of Site 22 was expanded to 15 acres by extending the northern site boundary to ensure all potential areas of concern were investigated. The location of the landfill was based on limited evidence. Investigations could not locate any landfilled materials or debris. Geophysical surveys were used to find buried metal or disturbed soils. Soil gas sampling was also conducted at this site. Finally, soil and groundwater were sampled. No contaminants were found in any of the samples and the geophysical surveys found no buried waste. This evidence showed that a landfill did not exist in this area. This site was investigated during the OU2 remedial investigation and levels of contamination requiring remedial action were not identified. There was no risk assessment completed on Site 22 because no contaminants were found and the site poses no risk to human health or the environment. No restriction on future use of the land is required.

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5.1.8   Site 23 – East March Effluent Pond.

Site 23 is located off-Base to the east, near the intersection of Nandina Avenue and Heacock Street in the City of Moreno Valley (Figure 4-1). The site occupies essentially flat terrain. The general surface water drainage in the area is to the southeast following the gently sloping terrain. Bedrock was not encountered during investigations at Site 23. Groundwater at Site 23 is at a depth of over 90 feet bgs and flows to the southeast.

Between 1938 and 1977, Site 23 was a 1-acre holding pond for wastewater that had been treated and used for irrigation of agricultural crops. In 1991, the pond was filled in, and it and the surrounding areas were leveled. The land is now used as a commercial sod farm and irrigated with reclaimed water from the Moreno Valley wastewater treatment plant. This site was investigated during the OU1 remedial investigation and no contamination requiring remedial action was identified. There was no risk assessment completed on Site 23 because no contaminants were found and the site poses no risk to human health or the environment. No restriction on future use of the land is required.

5.1.9   Site 24 – Landfill No. 1.

Site 24 is a former 3-acre landfill, west of Site 19 (Figure 4-1). The topography of the site is generally flat with a ridge to the west of the site. Bedrock was not encountered during drilling or trenching at Site 24, but is expected to be shallow because bedrock is exposed to the west of the site. Surface water flows to a wash along the western portion of the site that directs runoff water to an eastward-trending channel north of the wastewater treatment plant. Groundwater is at a depth of about 20 to 30 feet. Groundwater flows towards the east and southeast.

Site 24 was reportedly used between 1941 and 1965 to dispose of household waste and military waste. A small amount of soil from bullet backstop berms may have been placed in the landfill as well as some ash from an incinerator. Some of the contaminants found in the waste included PAHs, PCBs, antimony, barium, and cadmium.

The Air Force was concerned that the waste in the landfill could contaminate groundwater. After discussions with the regulatory agencies and the public, a decision was made to clean up the site by removing the landfilled waste. In December 1996, approximately 19,300 cubic yards of non-hazardous, landfilled waste was removed and placed in the engineered waste cells at Site 6 (IT Corporation 1997g). Excavated materials from Site 24 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 24 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment. No restriction on future use of the land is required. The results of the confirmation sampling are further discussed in Section 6, Summary of Site Risks.

After the interim removal action, the site was restored by backfilling with clean soil and revegetating the site. Site 24 was backfilled to grade and the soil contoured to drain as before the interim removal action. The site was revegetated with a seed mix approved by the U.S. Fish and Wildlife Service.

5.1.10 Site 25 – Munitions Residue Burial Site.

Site 25 covers approximately 33 acres and is located south of Cactus Avenue (Figure 4-1). The physical site setting consists of thin alluvial cover over shallow granitic bedrock at varying depth. Outcrops of granitic rock are west and north of the site. One major intermittent surface drainage in the southern portion of the site channels flows through the site. Groundwater at Site 25 is present within the weathered granitic rock and in the alluvium at 15 to 45 feet below ground surface. Groundwater at Site 25 flows toward the east.

Site 25 was used in the past for open air detonation and burning of munitions. Three areas with shallow trenches were used to bury munitions residue after destruction. Some of the contaminants found in the soils at this site included nickel, 1,3,5-trinitrobenzene, nitroglycerin, benzo(a)pyrene, and RDX, all of which are munition residues. Additionally, 1,1-dichloroethene was also found. The Air Force was concerned that the contaminants in soil would cause groundwater contamination. After discussions with the regulatory agencies and the public, a decision was made to clean up the site by removing the debris and contaminated soils. Approximately 3,000 cubic yards of non-hazardous waste from the trenches and contaminated soils were removed and disposed of in the engineered waste cells at Site 6 (IT Corporation 1997h). Excavated materials from Site 25 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents at a rate of about 1 sample for every 200 cubic yards of excavated materials during the removal action. Testing was also performed as part of the remedial investigation. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 25 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. Focused groundwater monitoring was completed at the site and no contaminants of concern were detected in groundwater. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment. No restriction on future use of the land is required. The results of the confirmation sampling are further discussed in Section 6, Summary of Site Risks.

After the interim removal action, the site was restored by backfilling with clean soil and revegetating the site. Alluvial material from the areas surrounding the trenches was used to bring the excavations back to original grade. The site was revegetated with a seed mix approved by the U.S. Fish and Wildlife Service.

5.1.11 Site 26 – Water Treatment Sludge.

Site 26 covers approximately 3 acres and is located in the southwest portion of March AFB (Figure 4-1). Site 26 is subdivided into two areas, Site 26a and 26b. Site 26b is located over a portion of the Site 20 landfill. Site 26a is located on property controlled by the AFRPA and Site 26b is on the property of the Department of Veterans Affairs. The topography at Site 26 consists of gently rolling hills incised by drainage gullies. Rock outcrops are scattered over the area and, where covered with alluvium, the depth to weathered granitic bedrock is relatively shallow. Groundwater at Site 26 is unconfined at depths ranging from approximately 17 to 39 feet bgs. Groundwater flows toward the northeast. Surface water drains to a prominent east-west ravine, which drains to the east.

Site 26 was used for disposal of lime sludge that was a waste from the treatment of drinking water for March AFB. From 1941 to 1984, the water treatment plant treated Colorado River water used to supplement the drinking water supply for the Base. Arsenic from the treated Colorado River water was found in the lime sludge at low levels. After discussions with the regulatory agencies and the public, a decision was made to clean up the site by removing the sludge. As mentioned in the description of the landfill at Site 20, approximately 116,000 cubic yards of non-hazardous soil and dried sludge were removed from Sites 20 and 26 in 1996 and disposed of in the engineered waste cells at Site 6 (IT Corporation 1996, 1997f and 1997i). Excavated materials from Site 26 to be transported to and

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disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents during the remedial investigation and monitored during the removal action according to approved work plans. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 26 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous waste landfill. The area was then backfilled with clean soil and reseeded. No confirmation samples were collected at Site 26a because all visible wastes were removed to bedrock. Wastes of the Site 20 landfill were located under Site 26b and confirmation sampling was conducted as part of the interim removal action at Site 20. The results of these confirmation samples will be discussed in Section 6, Summary of Site Risks under the discussion for Site 20. The site contaminants have been totally removed. Thus, current site conditions are protective of human health and the environment. No restriction on future use of the land is required.

5.1.12   Site 30 – Construction Rubble Burial Site.

Site 30 covered approximately 40 acres, south of Alessandro Boulevard and west of Interstate 215. The physical site setting consists of thin alluvial cover over shallow granitic bedrock at varying depth. Exposed bedrock is west of the site. The general site topography slopes toward the northeast. Site 30 contains a pond that collects surface drainage from the surrounding area and is normally, though not continuously, filled with water. The pit may be fed by groundwater in certain seasons of the year and is heavily vegetated. The pond is a potential jurisdictional wetland. Groundwater elevations vary seasonally, but are generally within 20 feet of ground surface, with the highest groundwater levels recorded in early Spring. The groundwater flow direction is to the northeast. Weathered bedrock appears to support a discontinuous water table in the north and central portion of the site. Site 30 is located in the 1,300 acre SKR reserve.

There is no evidence that Site 30 ever operated as a March AFB-controlled landfill, but illegal dumping of domestic waste from the surrounding community has occurred and some minor amounts of construction debris were found. Soil and groundwater samples taken at the site did not detect contaminants at levels not protective of human health. After discussions with the regulators and the public, a decision was made to clean up the site by removing the domestic and construction debris. Domestic and construction debris was removed from the site in April 1997 and disposed of off the Base (OHM Remediation Services Corporation 1996). The Air Force has installed gates on access roads to prevent vehicular traffic to the site. Warning signs were placed in several areas, and gates remain padlocked to help prevent access by unauthorized persons.

The site conditions are protective of human health and the environment. No restriction on future use of the land is required. The results of sampling are discussed in Section 6, Summary of Site Risks.

5.1.13   Site 35 – 15th Air Force Headquarters Leaking Underground Storage Tanks.

Site 35 consisted of three subareas (Sites 35a, 35b, and 35c) located in the former 15th Air Force Headquarter complex on West March (Figure 4-1). The subareas were locations of former underground storage tanks (USTs) associated with Buildings 3409 (Site 35a), 3417/3418 (Site 35b), and 3406 (Site 35c). Bedrock was not encountered at any of the Site 35 subareas during investigations. These sites are generally flat with a general slope to the southeast and east. Runoff of surface water is to the southeast. Groundwater occurs beneath the sites at depths ranging from approximately 5 to 20 feet. The groundwater levels fluctuate with water levels dropping steadily after Spring highs, apparently caused by rainfall. Based on available data, groundwater flows to the east or northeast at Sites 35a and 35b and to the south or west at Site 35c.

The tanks at these locations were of various sizes and contained either fuel oil or diesel. Site 35a, a former 8,000-gallon fuel oil tank, was located west of Allen Avenue and south of 11th Street, east of Building 3409. Site 35b, two former diesel tanks of 6,650-gallon and 3,500-gallon, was located between Building 3417 and 3418, west of Allen Avenue and Bundy Avenue. Site 35c, a former 1,000-gallon diesel tank, was located north of 5th Street and west of Dalla Avenue, east of Building 3406. All tanks have been removed and the locations closed without restrictions in accordance with state and county regulations.

Fuel leaks have been associated with the tanks at Site 35. Sites 35a and 35b were investigated during the OU2 remedial investigation and other studies and levels of contamination requiring remedial action were not identified. After discussions with the regulatory agencies, the Air Force decided to clean up the soil by bioventing at Site 35c where fuel had leaked. Bioventing has reduced diesel fuel contamination to levels protective of human health and the environment at Site 35c (Parsons Engineering-Science 1997). No restriction on future use of the land is required. The results of sampling are discussed in Section 6, Summary of Site Risks.

There is no threat to groundwater at any of the Site 35 subareas.

5.1.14 Site 40 – Landfill No. 8.

Site 40 covers approximately 49 acres on West March, north of Van Buren Boulevard and west of Plummer Road (Figure 4-1). The most prominent feature at the site is the abandoned quarry, containing a pond with riparian vegetation. The pond is replenished by groundwater and by surface flow from an intermittent stream channel entering the pond from the west. The surface water drains from a housing area to the west of the site, flows through the pond, and then exits the site to the east. The pond is a potential jurisdictional wetland. Outcrops of granitic bedrock occur in several areas of the site. Bedrock is generally shallow with a thin mantle of soil. Groundwater at the site is generally within 10 to 40 feet of ground surface with minor seasonal fluctuations. The groundwater flow direction is to the east. Site 40 is located in the 1,300 acre SKR reserve.

Site 40 was used as a disposal location for drums, construction debris, battery casings, and motor vehicle parts. After discussions with the regulatory agencies, a decision was made to complete an expedited cleanup of the area exposed by the erosion and other debris at the site. The time-critical removal action completed in 1994 included removal of the drums, miscellaneous waste, and contaminated soil. Hazardous waste from the site was taken off the Base for proper disposal (OHM Remediation Services Corporation 1995). Approximately 6,800 cubic yards of non-hazardous materials were disposed of at the Site 6 engineered waste cells. Excavated materials from Site 40 to be transported to and disposed of in the engineered waste cells at Site 6 were tested for organic and inorganic constituents at a rate of about one sample for every 100 cubic yards of excavated materials during the removal action. Testing was also performed as part of the remedial investigation. According to the As-Built Construction Report OU2, Site 6a (IT Corporation 1997c), all materials from Site 40 placed in the Site 6 engineered waste cells met the requirements of CCR Title 23, Section 2523 (currently CCR Title 27, Section 20220) for a non-hazardous solid waste landfill. Following this time-critical removal action, confirmation sampling results confirmed that the site has been cleaned to levels protective of human health and the environment. The results of the confirmation sampling are discussed in Section 6, Summary of Site Risks. As part of the removal action, the upgradient channel was lined and a concrete weir was installed at the pond outfall to prevent erosion. The weir raised the permanent water level in the pond about 1.5 feet as recommended by the California Fish and Game, expanding the wetlands. The excavations were backfilled with clean soil and reseeded (OHM 1995).

During a recent site visit and evaluation of available data for OU2 sites, levels of mercury were identified in sediments of a pond located at Site 40 that may present a threat to ecological receptors. The EPA and AFRPA have researched the current site conditions and potential corrective actions and determined that any actions taken to prevent exposure to mercury in sediments would be more disruptive to the wetland habitat at Site 40 than leaving the sediments in place. The efficacy of leaving these sediments in place will be reviewed during the first CERCLA 5-year review, and subsequent reviews as appropriate.

Groundwater testing has shown there is no contamination of groundwater (AFRPA 2000).

5.1.15 Site 42 – Building 3404 Transformers.

Building 3404 is located on less than one acre near the intersections of 11th Street and Davis Avenue on West March (Figure 4-1). The surface topography is flat with limited surface water flow. No bedrock was encountered during investigations on the site. Groundwater occurs beneath the site at depths of about 20 feet. Groundwater flow at the site is to the south.

Transformers located in Building 3404 reportedly leaked oils containing PCBs onto the floor of the transformer room. These oils were also spilled onto the soil surrounding the building. After discussions with the regulatory agencies and the public, a decision was made to clean up the area outside of Building 3404 by removing the contaminated soil. In the interim removal action, the contaminated soils were excavated and taken offsite for proper disposal. A total of 330 tons of contaminated soils were removed from the site. The PCB concentrations were low enough to allow disposal of 292 tons of contaminated soils as non-hazardous waste. An additional 38 tons was disposed of off the Base as hazardous waste. Clean fill was placed in the excavation to grade and a gravel cover was placed on top of the previously excavated area. Confirmation sampling conducted after the interim removal action confirmed that the site had been cleaned to levels protective of human health and the environment (The Earth Technology Corporation 2000). No restriction on future use of the land is required. The results of the confirmation samples are discussed in Section 6, Summary of Site Risks.

Transformer oils may be present in the concrete floor of Building 3404. The Air Force attempted to remove the PCBs from the concrete. Minimal levels of PCBs were left and have been encapsulated. The concrete is not addressed in this AFRPA OU2 ROD because building interiors are not regulated under CERCLA. The current landowner, the County of Riverside, has entered into a land use covenant with the State that restricts use of the building to industrial activities and contains other measures to prevent exposure to residual contamination.

5.2 PROPOSED LAND USE FOR OU2 SITES CONTROLLED BY AFRPA

The current land use and adjacent land use for most of the OU2 AFRPA sites is vacant land/open space with limited commercial and residential land use adjacent to some of the sites as discussed below (Figure 5-5). Site 3 and the adjacent areas are undeveloped land. Site 6 contains an engineered waste cell. There is a residential area to the south and a golf course is to the east of Site 6. Site 12 was the former civil engineering yard with numerous structures. Site 12 is not currently utilized. Residential land use occurs to the east of Site 17. Air Force commercial facilities such as offices are located to the north and west of the Site 17. Site 19 is currently a part of the operating wastewater treatment plant. Structures relating to plant operations are located on-site and to the west and north. Site 20 and 26 and the adjacent areas are undeveloped land. A former water treatment plant is south of Site 26 and west of Site 20. This facility is no longer used. Site 23 is an active agricultural area, surrounded by currently vacant land to the north, south and east. Air Force land consisting of open space is west of Site 23. Site 25 and the adjacent areas is undeveloped land, with nearby residential development to the south. The three Site 35 subareas and Site 42 are former UST locations within landscaped areas adjacent to structures. The areas near Site 35a, 35b and Site 42 are still actively used as office and dormitory areas, but the Site 35c area is no longer

used. Sites 30 and 40 are open space with some riparian vegetation. A residential area is located to the north and west of Site 40.

The OU2 sites other than site 23 discussed in this AFRPA OU2 ROD are located on that portion of March AFB that may be converted to non-Air Force use. Site 23 is on private land. The anticipated land use for most of the OU2 AFRPA sites is commercial or industrial use as shown in Table 5-1. Alternative land uses have also been assessed and areas of West March could remain open space such as the SKR Conservation Area.

March AFB is located in the North Perris Groundwater Basin. Currently, there are no potable groundwater resources extracted at the OU2 AFRPA sites. The relatively thin water-bearing zone on West March is not anticipated to yield substantial quantities of water. Therefore, the potential for extraction and use of groundwater from the West March AFRPA sites is limited, both now and in the foreseeable future. Water-bearing zones producing sufficient groundwater for use may be present at AFRPA sites on the Main Base and Site 23, and should be considered a potential potable water source.

Surface water is not currently used at the OU2 AFRPA sites. Surface water areas such as at Site 6, 30 and 40 may remain as wetlands depending on future site development.

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TABLE 5-1
POTENTIAL FUTURE LAND USE FOR OU2 SITES CONTROLLED BY AFRPA

</div>

	Site 3	Site 6	Site 12	Site 17	Site 19	Site 20/ Site 26	Site 22	Site 23	Site 24	Site 25	Site 30	Site 35	Site 40	Sit3 42
Preferred Land Use														
Agricultural[1]								X						
Business Park	X									X				X
Commercial												X	X	
Industrial					X				X		X			
Mixed Use[2]			X	X										
Public Facilities/ Recreational		X[6]				X[3]	X							
Alternative Land Uses														
Agriculture[1]								X						
Business Park				X								X		
Commercial		X			X						X			
Industrial					X				X		X			
Mixed Use[2]												X		X
Public Facilities/ Recreational	X	X[6]				X[3]	X							
Residential										X				
SKR[4] Conservation	X					X[5]				X	X	X	X	X

Notes:
[1] Current land use is agricultural. Future land use for this area would be decided by the City of Moreno Valley.
[2] Mixed use: Industrial and Commercial enterprises.
[3] Proposed use of Site 26a would be as public facilities/recreation.
[4] Stephens' Kangaroo Rat, a Federally endangered species.
[5] Based on new Biological Opinion, the proposed use of Site 26a as SKR conservation would not be required. Site 26b and Site 20 are on land currently part of the National Cemetery.
[6] Proposed use of Site 6 is passive open space.

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DECISION SUMMARY:
6.0 - SUMMARY OF SITE RISKS

6.0 SUMMARY OF SITE RISKS

A baseline human health risk assessment was conducted for the AFRPA OU2 sites using data collected during the OU2 RI. The human-health evaluation methodology is provided in Section 2 of the final OU2 RI report for these sites. Ecological risk assessments were also conducted. The methodology is provided in Section 2 of the final OU2 RI. (Tetra Tech, Inc. 1997a)

6.1   BASELINE RISK ASSESSMENT

6.1.1   Baseline Risk Assessment Methodology

During the OU2 RI, the Air Force considered the potential human health risks associated with the sites. The baseline risk assessment for these sites was performed using both current and future industrial/construction worker and future residential scenarios. In accordance with EPA guidance, it was assumed future site residents and workers could be exposed to chemicals of potential concern detected in surface soils. Accidental ingestion and incidental dermal contact with surface soil (0 to 2 feet) were therefore considered to be potentially complete exposure pathways and were selected for quantitative evaluation, as appropriate. Because DTSC is concerned with the surficial redistribution of near-surface soils during residential development, it was conservatively assumed that future residents may also contact chemicals of potential concern detected in soils up to 10 feet deep.

During future site development, construction workers may be exposed to chemicals in soils. To conform to California EPA guidance, it was conservatively assumed that future construction workers may be exposed to chemicals measured in either surface soils (0 to 2 feet) or near surface soil (0 to 10 feet). The specific soil interval used in the exposure analyses depended on the determination of exposures and risks to future residential receptors. The data from the more substantially affected soil interval (i.e., highest risk to receptors) was used in evaluating exposures to future construction workers.

As described in the RI, the groundwater basin is a potential municipal water source; groundwater could possibly be used for potable purposes in the future. Thus, despite the extremely low likelihood, potential future residential exposure to chemicals of potential concern in groundwater was selected for quantitative evaluation, including ingestion of groundwater, and inhalation of vapors emitted from water during showering. Future residential groundwater exposures were evaluated for on-site residents. It was assumed that off-site residential exposures (if groundwater is used at off-site locations) would be identical to those for on-site residents.

Chemicals in soil can migrate to the atmosphere through volatilization or suspension of soil particles. Chemicals that may be involved in both of these processes may be detected in soil and soil gas samples. The presence of a receptor that might inhale the resulting airborne compounds would complete the air exposure pathway.

Airborne dust may be dispersed to off-site locations such as the nearby industrial workers and residents. They may inhale the airborne dust and thereby be exposed to the chemicals released from soils. Future on-site workers and residents may also inhale fugitive dusts emitted from surface soils, thereby completing the inhalation exposure route. Workers involved with future construction operations may also be exposed to dust generated by excavation or other soil handling activities. If excavated soils were redistributed at the surface, DTSC has indicated a concern for future residents being exposed to the compounds in these soils. Inhalation of airborne dusts was, therefore, identified as a potentially complete exposure pathway. Quantitative evaluation of this soil-related pathway was conducted in conjunction with ingestion and dermal contact of soils.

Whenever chemicals of potential concern are detected in site soils, the potential exists for surface water to be affected by surface runoff. As appropriate, this pathway was also evaluated.

The potential exposure pathways listed in the RI for chemicals of potential concern (COPCs) in surface soil at the AFRPA OU2 sites were ingestion of soil, inhalation of vapors and dust, and direct contact with the skin. Possible exposure pathways for COPCs in groundwater were ingestion, inhalation of vapors, and direct contact with the skin.

Exposure conditions used in the estimation of risk were chosen to represent what is known as "reasonable maximum exposure." Use of these exposure conditions tends to overestimate risk. This effort to overestimate risk is deliberate; it provides risk managers a margin of safety when making cleanup decisions. The combination of the intake variables, expressing the exposure conditions for each receptor at each site, results in a chronic daily dose. The dose is an estimate of exposure for each pathway.

Risks were calculated by integrating the chronic daily dose with toxicity factors. Toxicity factors are numbers that indicate the toxicity of chemicals and are developed by the EPA. The toxicity factor for carcinogenic effects is called a cancer slope factor (CSF) and the toxicity factor for non-carcinogenic effects is called a reference dose (RfD). Compounds that show a potential for both carcinogenic and non-carcinogenic health effects are assigned both slope factors and RfDs. In addition to the EPA-derived slope factors, California EPA (Cal-EPA) has developed CSFs. Toxicity values were obtained from several primary sources, according to the following order of priority: (1) a listing of carcinogenic Slope Factors (SFs) developed by Cal-EPA; (2) the computer files of the EPA's Integrated Risk Information System (IRIS), if toxicity data were not available from Cal-EPA or the toxicity values from IRIS were more conservative than those developed by Cal-EPA, and (3) the annual version of the EPA's Health Effects Assessment Summary Tables (HEAST). Other sources were used where appropriate.

Excess lifetime cancer risks are probabilities that are generally expressed in scientific notation (e.g., 1×10^{-6} or 1E-6). An excess lifetime cancer risk of 1×10^{-6} indicates that, as a plausible upper bound, an individual has a one-in-a-million additional chance of developing cancer as a result of site-related exposure to a carcinogen over a 70-year lifetime under the specific exposure conditions at a site. Guidelines for managing cancer risks are promulgated in the NCP (40 *Code of Federal Regulations* [CFR] 300.430 [e][2][I][A][2]). According to these regulations, excess carcinogenic risks ranging between 10^{-4} and 10^{-6} may be allowable. Excess cancer risks below 10^{-6} are generally allowable.

Potential non-carcinogenic effects of a single contaminant in a single medium are expressed as hazard quotients (HQs). By adding the HQs for all contaminants within a medium or across all media to which a given population may reasonably be exposed, the hazard index (HI) can be generated. The HI provides a useful reference point for gauging across media. The EPA has also established guidelines for non-cancer risks. Using these guidelines, an HI of less than 1 is generally considered protective of human health. If the HI is greater than 1, an assessment of the COPCs contributing to the HI is performed to determine whether the HI represents a non-carcinogenic human health risk above the range identified in the NCP.

The results of the risk assessment for the OU2 AFRPA sites for the contaminants found *prior* to removal actions are summarized in Tables 6-1, 6-2, and 6-3. These tables identify the cancer and/or non-cancer risk for receptors. In addition, they identify the COPCs contributing to the majority of the cancer risk and HI. The site-specific discussions below contain a brief summary of the findings of the baseline human health risk assessment followed by the post-removal action risk evaluation.

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Table 6-1
Carcinogenic and Non-Carcinogenic Health Risks
From Soil and Soil Vapor
AFRPA OU 2 Sites, March AFB *Before* Removal Actions

Site No.	Site Name	Carcinogenic Risks >10E⁻⁴		Carcinogenic Risks Between 10E⁻⁶ and 10E⁻⁴		Non-Carcinogenic Health Risks (HI>1)	
		Chemical of Concern	Receptor	Chemical of Concern	Receptor	Chemical of Concern	Receptor
3	Landfill No. 5	PAHs, PCBs	Future Residents	PAHs	Industrial Workers and Construction Workers	Azinphos methyl (Risks to)	Future Residents and Construction Workers
6a	Landfill No. 4	PAHs, Dioxins	Future Residents and Industrial Workers	PAHs, Dioxins	Construction Workers	MCPA	Future Residents
6b Quarry	Landfill No. 4	PAHs	Future Residents and Industrial Workers	PAHs, 4,4'-DDE, 4,4'-DDT	Future Residents and Construction Workers	Aspon, Azinphos methyl, EPN, Mevinphos, Vanadium	Future Residents, Industrial Workers, and Construction Workers
6b Pond	Landfill No. 4	None Identified		PAHs, Dioxins	Industrial Workers and Future Residents	Antimony, MCPA	Future Residents and Construction Workers
12	CE Storage Yard	Wash Rack/Sump Area: PAHs, Chromium VI	Future Residents, Industrial Workers, and Construction Workers	None Identified	Future residents and Industrial Workers	None Identified	
17	Swimming Pool Fill[1]	PCB	Future Residents and Construction Workers	None Identified		None Identified	
19	West March Sludge[2] Drying Beds	PAHs,	Future Residents	PAHs, PCBs, Chromium VI	Future Residents, Industrial Workers, and Construction Workers	Thallium	Residential Child
20	Landfill No. 7	PCB, PAHs	Future Residents	PAHs, Dieldrin, PCBs, 1,4-Dichloro-benzene (vapor)	Future Residents, Industrial Workers and Construction Workers	None Identified	
24	Landfill No. 1	PCBs, PAHs	Future Residents	PAHs	Industrial Workers and Construction Workers	Antimony	Future Residents
25	Munitions Residue Burial Site	None Identified		Benzo(a)pyrene	Future Residents	None Identified	
26	Water Treatment Sludge	Arsenic	Future Residents and Industrial Workers	Arsenic	Construction Workers	Arsenic	Future Residents and Construction Workers
30	Construction Rubble Site	None Identified		None Identified		None Identified	
35	15th Air Force USTs	None Identified		None Identified		None Identified	

Notes: [1]Based on sampling after the removal action. The removal action was conducted prior to the baseline risk assessment.
[2]No removal action conducted. Risks based on conditions at the time of the OU2 RI

HI   =   Hazard Index
CE   =   Civil Engineering
UST   =   Underground storage tank
Sites 22, 23, 40 and 42 are not included on this table, because no quantitative risk assessment was performed.

Table 6-1
Carcinogenic and Non-Carcinogenic Health Risks to Future On-Site Residents
From Measured Concentrations in Groundwater
AFRPA OU2 Sites, March AFB *Before* Removal Actions

Site No.	Site Name	Base Area	Major Contributors to Carcinogenic Risks >$10E^{-4}$	Major Contributors to Carcinogenic Risks Between $10E^{-6}$ and $10E^{-4}$	Major Contributors to Non-Carcinogenic Health Risks (HI>1)
3	Landfill No. 5	West March	None Identified	Atrazine, Benzene, Heptachlor epoxide, Stirophos	Antimony, Thallium, 1,3,5-Trinitrobenzene
6a	Landfill No. 4	West March	None Identified	None Identified	None Identified
6b Quarry	Landfill No. 4	West March	None Identified	None Identified	None Identified
6b Pond	Landfill No. 4	West March	None Identified	None Identified	None Identified
12	CE Storage Yard	Main Base	None Identified	PCE, TCE	PCE, TCE
17	Swimming Pool Fill[1]	Main Base	None Identified	Chloroform	None Identified
19	West March Sludge Drying Beds[2]	West March	Arsenic	None Identified	None Identified
20	Landfill No. 7	West March	None Identified	None Identified	None Identified
24	Landfill No. 1	West March	None Identified	None Identified	None Identified
25	Munitions Residue Burial Site	West March	None Identified	RDX	Nickel
26	Water Treatment Sludge	West March	Arsenic	None Identified	Antimony
30	Construction Rubble Site	West March	None Identified	Arsenic (groundwater & surface water)	None Identified
35	15th Air Force UST	West March	None Identified	None Identified	None Identified

Notes: [1]Based on sampling after the removal action. The removal action was conducted prior to the baseline risk assessment.
[2]No removal action conducted. Risks based on conditions at the time of the OU2 RI.
HI   =   Hazard Index
USTs   =   Underground storage tanks
Sites 22, 23, 40 and 42 are not included on this table because no quantitative risk assessment was performed.

Table 6-3
**Carcinogenic and Non-Carcinogenic Health Risks
from Chemicals Predicted to Migrate to Groundwater
AFRPA OU2 Sites, March AFB *Before* Removal Actions**

Site No.	Site Name	Base Area	Major Contributors to Carcinogenic Risks >10E^{-4} from Predicted Groundwater Concentrations	Major Contributors to Carcinogenic Risks Between 10E^{-6} and10E^{-4} from Predicted Groundwater Concentrations	Major Contributors to Non-Carcinogenic Health Risks (HI>1) from Predicted Groundwater Concentrations
3	Landfill No. 5	West March	PAHs, PCBs, Dieldrin	None Identified	Azinphos methyl, Demeton, Dichloroprop, Disulfoton, MCPP, Naphthalene, 1,3,5-Trinitrobenzene
6a	Landfill No. 4		None Identified	1,1-DCE, PCE	MCPA, MCPP
6b Quarry	Landfill No. 4		None Identified	Heptachlor epoxide	Azinphos methyl, Demeton, Mevinphos
6b Pond	Landfill No. 4		None Identified	Dieldrin	MCPA
12	CE Storage Yard	Main Base	None Identified	1,4-Dichlorobenzene	Wash Rack: MCPA
17	Swimming Pool Fill[1]	Main Base	None Identified	None Identified	None Identified
19	West March Sludge Drying Beds[2]	West March	Dieldrin, Heptachlor epoxide	None Identified	4-Chloroaniline
20	Landfill No. 7	West March	None Identified	1,4-Dichlorobenzene	None Identified
24	Landfill No. 1	West March	Benzene, PCBs	None Identified	None Identified
25	Munitions Residue Burial Site	West March	None Identified	None Identified	None Identified
26	Water Treatment Sludge	West March	None Identified	None Identified	None Identified
30	Construction Rubble	West March	None Identified	None Identified	None Identified
35	15th Air Force USTs	West March	None Identified	None Identified	None Identified

Notes: [1] Based on sampling after the removal action. The removal action was conducted prior to the baseline risk assessment.
[2] No removal action conducted. Risks based on conditions at the time of the OU2 RI.

HI   =   Hazard Index
USTs   =   Underground Storage Tanks

Sites 22, 23, 40 and 42 are not included on this table because no quantitative risk assessment was performed.

6.1.2 Screening Risk Assessment Methodology Using RPRGs

The post-removal action risk evaluation was conducted using preliminary remediation goals or PRGs. As defined in EPA's 1991 *Risk Assessment Guidance for Superfund Volume 1, Part B: Development of Risk-Based Preliminary Remediation Goals*, "PRGs are goals which provide remedial design staff with long-term targets to use during analysis and selection of remedial alternatives. Ideally, the PRGs, if achieved, should both comply with applicable or relevant and appropriate requirements [i.e., maximum contaminant levels (MCLs), National Ambient Water Quality Criteria (NAWQCs), etc.] and result in residual risks that fully satisfy the NCP requirements for the protection of human health and the environment."

PRGs are concentration targets for individual chemicals for specific medium and land use combinations. There are two sources generally used for the derivation of chemical-specific PRGs: 1) concentrations based upon applicable or relevant and appropriate requirements and 2) concentrations based upon risk assessment or risk-based calculations. The risk-based *Residential* PRGs (RPRGs) found in EPA's 1999 *Region 9 Preliminary Remediation Goals (PRGs)* were used to evaluate risk during and after removal action efforts at March AFB. This approach follows the methodology discussed and approved by Air Force, EPA, DTSC, and RWQCB and documented in the Administrative Record.

6.1.3 Summary of Human Health Risks at the AFRPA OU2 Sites

Site 3 – Landfill No. 5

The results of the baseline risk assessment for the contaminants detected in the soil, landfilled material, and groundwater prior to the removal action indicated carcinogenic and non-carcinogenic risks to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3) that were above the manageable risk range identified in the NCP. To mitigate these risks and protect groundwater, a removal action was performed as previously described. Non-hazardous contaminated soils and landfilled debris have been removed from Site 3 and disposed of in the Site 6 waste cells. Hazardous waste was removed from the Base and properly disposed. After completion of excavation activities for the removal action, 27 confirmation samples were taken to confirm that any residual contamination would not pose a risk to human health (Figure 6-1) (IT Corporation 1997b).

The sampling showed residual PAHs and one PCB in surface/near-surface soils and sediments (Table 6-4). The PCB detected in one sample (Aroclor 1242) was at concentrations lower than the 1999 RPRG of 0.22 milligram per kilogram (mg/kg). Most PAHs were orders of magnitude less than their respective RPRGs, except for one sample (S001) with benzo(a)pyrene at about one order of magnitude above the RPRG. A second sample (S001a) taken in this area did not show detectable PAHs. Additionally, this area is periodically burned to improve SKR habitat and PAHs could result from this activity. No other volatile organics, semivolatile organics, organochlorine pesticides, chlorinated herbicides, organophosphorus pesticides, or nitroaromatics/nitroamines were detected in the confirmation samples. Therefore, the residual organic compounds in soils and sediments after the removal action are not pervasive and some may be related to non-landfilling activities. Based on the maximum concentrations of detected organics the reasonable maximum exposure carcinogenic risks to future residents are within the manageable risk range of 10^{-4} to 10^{-6} and less than 1 for non-carcinogenic risks.

Metals concentrations in soil samples were below RPRGs for all detected metals except arsenic (Table 6-5). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the manageable risk range identified in the NCP to residential receptors based on RPRGs and background soil concentrations.

Metals concentrations in sediment and surface water samples were below RPRGs for all detected metals except arsenic and iron (Table 6-6). Most metals concentrations are orders of magnitude below their respective RPRGs. However, arsenic exceeds the RPRG but is within the range of background for arsenic in soils for the OU2 West March as documented in the OU2 RI. One sediment sample exceeds the RPRG for iron by a factor of slightly over 2, resulting in a non-carcinogenic risk of about 2, but the average is within the range of iron concentrations in background samples.

The mafic dikes associated with the geology of West March have high iron concentrations and could result in isolated locations with elevated iron content, especially in sediments where heavy elements would be concentrated. Therefore, potential residual metals in sediments and surface water after the removal action do not pose a risk above the manageable risk range identified in the NCP to residential receptors based on RPRGs and background soil concentrations.

Groundwater sampling conducted at Site 3 after the removal action has shown no detectable concentrations of the contaminants that were detected prior to the removal action. The removal action at Site 3 has eliminated the potential for migration of contaminants to groundwater.

Based on the results of confirmation samples, Site 3 no longer poses a threat to human health above the manageable range identified in the NCP and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the residual risk is currently within the manageable risk range. The estimated risk level is based on maximum detected concentrations and likely overestimates the actual exposures to residents. Additionally, the proposed future use of this area is commercial, and commercial receptors would have limited soil and sediment contact. A proposed alternative land use is as a SKR conservation area. For this land use, limited human exposures are anticipated. The site also has been covered with clean backfill, interrupting the exposure pathway for any receptor.

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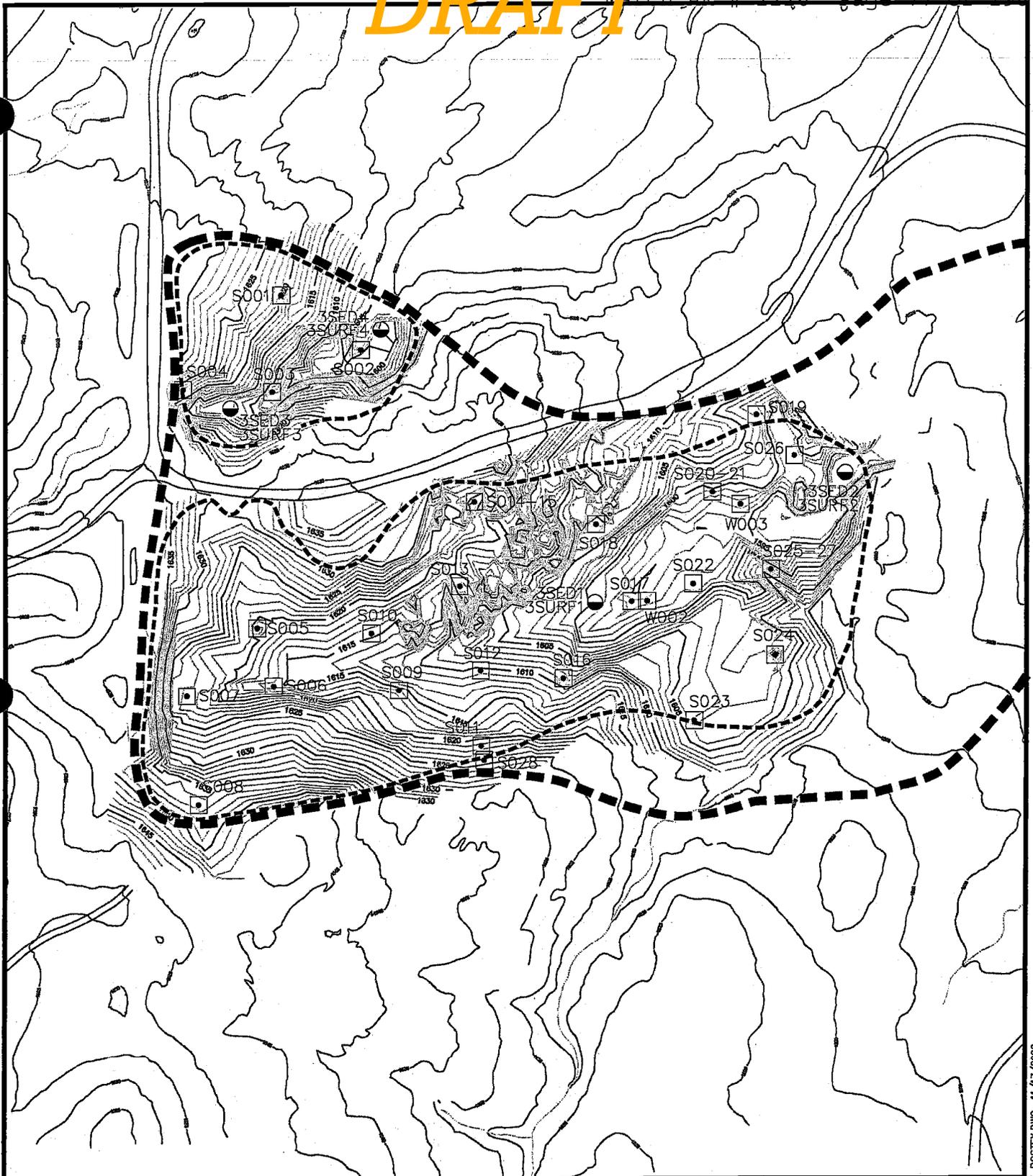
LEGEND

— — — Site Boundary

– – – Landfill Boundary

▣ IT Corp Confirmation Sample Location

◖ Tetra Tech Sediment & Surface Water Sample Location (both at same location)

0   100   200 FEET

SCALE

— N —

United States Air Force
March ARB
Site 3 Landfill No.5 Post-Excavation Topography & Confirmation Sample Locations

Figure

6-1

X:\GIS\A212-14\OU2 AFBCA ROD\SITE3_POSTEX.DWG 11/17/2000

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Table 6-4
Analytical Results for Organics Detected in Confirmation Soil Samples
Site 3 -- Landfill No. 5
(mg/kg)

Analyte	Method	Sample No.				RPRG [1]
		S001	S012	S021	S028	
Aroclor 1242	8080	<0.0034	0.059	<0.0034	<0.0034	0.22
Acenapthylene	8310	2.900	<0.002	<0.002	NR	3,700
Phenanthrene	8310	0.510	<0.0006	<0.0006	NR	56[2]
Fluoranthene	8310	1.000	<0.0002	<0.0002	NR	2,300
Pyrene	8310	0.750	<0.0003	<0.0003	NR	2,300
Benzo(a)anthracene	8310	0.470	<0.00008	<0.00008	NR	0.62
Chrysene	8310	0.590	<0.0002	0.46	NR	62 (6.1*)
Benzo(b)fluoranthene	8310	0.410	<0.0002	<0.0002	NR	0.62
Benzo(k)fluoranthene	8310	0.300	<0.00002	<0.00002	NR	6.2 (0.61*)
Benzo(a)pyrene	8310	0.590	<0.00005	<0.00005	NR	0.062
Indeno(1,2,3-cd)pyrene	8310	0.440	<0.0002	<0.0002	NR	0.62

Notes: Only those samples with detectable concentrations of the analytes are listed.

[1] = RPRGs (Preliminary Remediation Goal) Residential Soil (set to 1×10^{-6}, or HQ of 1), EPA Region IX, 1999.

[2] = Naphthalene used as surrogate.

< = Concentration less than listed method detection limit.

mg/kg = milligrams per kilogram

* = Cal-Modified RPRG

NR = Not Requested

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Table 6-
Analytical Results for Metals Detected in Confirmation Soil Samples
Site 3 – Landfill No. 5
(mg/kg)

Analyte	Method	Sample No.											
		S001	S002	S003	S004	S005	S006	S007	S008	S009	S010	S012	S013
As	7060	0.47	0.81	0.8	0.45	<0.38	0.47	0.7	0.72	0.66	0.78	0.81	1
Ba	6010	211	208	260	242	705	339	320	296	403	378	279	349
Be	6010	<0.14	<0.14	<0.14	<0.14	0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Cr	6010	18.2	19.2	20.5	16.1	26.1	15.3	14.2	21.1	40.2	24.2	16.6	17.1
Co	6010	9.4	12.5	13	10.9	18.8	11	11.4	13.5	16	15.2	11.3	12.2
Cu	6010	9.5	16.8	8.6	11.3	3.9	11.6	6.8	15	21.2	13.6	11.2	10.8
Pb	6010	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ni	6010	4.5	6.7	6.5	5.5	7.3	4.2	5.3	5.7	16	7.2	5.7	6.5
V	6010	36	49.6	56.4	39.5	65.3	47.2	43.1	62.6	55.6	58.8	43.5	43.7
Zn	6010	28.9	39.2	44.2	33.9	70.7	35	36.2	51.6	52.3	47.2	40.6	33.8

Analyte	Method	Sample No.											
		S014	S015	S016	S017	S018	S019	S020	S021	S022	S023	S024	S025
As	7060	0.91	0.61	1.4	2.3	0.39	0.76	0.81	0.57	0.76	0.94	0.72	0.64
Ba	6010	367	306	189	116	338	266	197	286	355	199	322	484
Be	6010	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Cr	6010	20	17.8	19.4	20.2	19.5	16	14.8	21.9	15.1	16.6	13.5	21.5
Co	6010	15.7	12.5	22.4	8.4	15.7	11.4	11.5	17.5	11.6	11.5	12.4	14.5
Cu	6010	13	7.9	45.2	10.5	5.8	7.2	12.4	6	5.1	10.2	10.8	2
Pb	6010	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ni	6010	6	5.9	6.1	<4	6.3	5	4.7	6.9	5.2	5.4	5.4	5.8
V	6010	42.7	47.3	48.6	52.6	50.7	46.5	42.5	62.7	40.7	42.7	39.9	55
Zn	6010	36	37.6	38.1	34.7	42.6	34.7	45.7	108	37.2	35.3	35.9	51.9

Analyte	Method	Sample No.		Maximum Concentration	Mean Concentration	RPRGs [1]	Background Maximum Concentration
		S026	S027				
As	7060	1.2	<0.38	2.3	0.77	0.39	5.26
Ba	6010	189	408	705	308.15	5400	552
Be	6010	<0.14	<0.14	0.27	0.087	150	10.95
Cr	6010	23.1	16.1	40.2	19.4	210	29.1
Co	6010	14.9	11.9	22.4	13.35	4700	16.1
Cu	6010	8.8	7.1	45.2	11.24	2900	17
Pb	6010	<5	<5	<5	ND	400	17.2
Ni	6010	5.8	4.2	16	5.99	150	10.4
V	6010	61.5	43.5	65.3	49.17	550	75.4
Zn	6010	42	42.3	108	43.68	23,000	65.2

Notes: For the purpose of calculating mean concentrations, non-detects are considered equal to 1/2 the reporting limit.
[1]   = RPRG (Preliminary Remediation Goal), Residential Soil (set to 1×10^{-6} or HQ of 1), EPA Region IX, 1999.
<   = Concentration less than listed method detection limit.
mg/kg = milligrams per kilogram

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Table 6-6
Analytical Results for Metals in Confirmation Sediment and Surface Water Samples
Site 3 - Landfill No. 5
(mg/kg or mg/L)

Analyte	Sediment Sample No. 3SED-1	3SED-2	3SED-3	3SED-4	Mean Concentration	RPRGs[1]	Background Maximum Concentration	Surface Water (filtered) Sample No. 3SURF1-F	3SURF2-F	3SURF3-F	3SURF4-F	Mean Concentration	Surface Water (unfiltered) Sample No. 3SURF1-U	3SURF2-U	3SURF3-U	3SURF4-U	Mean Concentration	Tap Water RPRGs[2]
	mg/kg							mg/L					mg/L					
Al	9,100	31,000	8,600	7,500	14,050	76,000	27,900	BJ	0.12 J	BJ	BJ	0.12	9.3	27	4.5	0.20 J	10.25	36,000
Sb	0.82 J	<0.3	1.0 J	0.97 J	0.735	31		<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	0.0037 J	<0.0026	0.0019	15
As	1.1	3.2	B	1.5 J	1.933	0.39	5.26	0.0034 J	0.0085	0.0026 J	0.0041 J	0.0047	0.0037	0.014	0.0030 J	0.0042 J	0.0062	0.045
Ba	260	690	260	200	352.5	5400	552	0.34	0.17	0.13	0.11	0.188	0.61	0.69	0.24	0.11	0.4125	2600
Be	B	0.53	BJ	BJ	0.53	150	10.95	BJ	BJ	BJ	BJ		BJ	0.00095 J	BJ	BJ	0.00095	73
Cd	<0.38	0.34 J	<0.38	<0.053	0.1933	37 (9.0*)		<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	<0.00053	18
Cr	12	40	14	12	19.5	210	29.1	0.0019 J	0.0019 J	0.0017 J	0.0018 J	0.0018	0.013	0.029	0.0085 J	0.0017 J	0.0131	
Co	9.5	29	10	8.9	14.35	4700	16.1	0.0043 J	0.0024 J	<0.0023	<0.0023	0.0023	0.014 J	0.022	0.0025 J	<0.0023	0.0099	2200
Cu	9.2	42	.11	8.2	17.6	2900	17	0.0058 J	0.011	0.0014 J	0.0045 J	0.0057	0.017	0.046	0.011	0.0066 J	0.0202	1400
Fe	14,000	53,000	17,000	13,000	24,250	23,000	31,000	0.032 J	0.12	0.018 J	0.018 J	0.047	15	34	7.2	0.21	14.1	11,000
Pb	1.3	21	3.2	1.9	6.85	400	17.2	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	<0.0027	0.023	0.0039	<0.0027	0.0074	
Mg	6,100	17,000	5,900	5,300	8,575		9,940	55	83	21	35	48.5	57	93	24	36	52.5	
Mn	280	810	190	230	377.5	1800	561	0.5	0.12	0.088	0.0080 J	0.179	0.9	1	0.39	0.072	0.5905	880
Mo	<0.28	0.66 J	<0.28	<0.28	0.27	390	11.2	0.018 J	0.027 J	<0.0027	0.0097 J	0.014	0.019 J	0.025 J	0.0032 J	0.0098 J	0.0143	180
Ni	5.1	18	5.9	4.9	8.475	1600(150*)	10.4	0.014	0.0051 J	0.0037	0.030 J	0.0132	0.014	0.0036 J	0.007	0.021 J	0.0456	730
Se	0.56 J	<0.34	1.6	<1.4	0.7575	390		<0.0029	0.0040 J	0.0030 J	<0.0029	0.0025	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	180
Ag	<0.15	0.47	3.1	0.19 J	0.959	390		<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	180
Tl	0.90 J	<0.65	<0.65	<3.2 J	0.78	6.3		<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	2.9
V	38	120	40	37	58.75	550	75.4	0.023	0.04	0.014	0.027	0.026	0.064	0.12	0.029	0.027	0.06	260
Zn	37	140	43	31	62.75	23,000	65.2	0.017	0.03	0.0050 J	0.011	0.0158	0.055	0.12	0.04	0.027	0.0605	11,000

Notes:
- < = Analyte not detected followed by the Method Detection Limit.
- J = Result is between the PQL and MDL. Analyte was positively identified, but the concentration is uncertain.
- B = Analyte was detected in the associated method or field blank(s).
- NC = Not calculated.
- [1] = RPRG (Preliminary Remediation Goal), Residential Soil (set to 10^{-6}, or HQ of 1), EPA Region IX, 1999.
- [2] = RPRG (Preliminary Remediation Goal), Tap Water, EPA Region IX, 1999.
- * = Cal-Modified RPRG.
- mg/L = milligrams per liter.
- mg/kg = milligrams per kilogram.

AFRPA OU2 ROD (former March AFB)

Site 6a - Landfill No. 4

The results of the baseline risk assessment based on the contaminants detected in the soil and landfilled materials prior to the removal action indicated carcinogenic and non-carcinogenic risks above the manageable risk range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. Confirmation samples were not collected at Site 6a because the removal action was implemented as a closure in place, rather than a clean closure. A capping system was placed over the waste cells containing the consolidated waste and soil to prevent infiltration of surface water and subsurface migration of contaminants (IT Corporation 1997c). The capping system also isolates the contained waste material from potential human and ecological receptors. Capping of the material has disrupted the exposure pathway. The removal action at Site 6a has eliminated the potential for migration of contaminants to groundwater.

Therefore, no further removal of soil or cleanup of groundwater is required at Site 6a to protect human health. The existing waste cells and related systems require operation and maintenance, and regularly scheduled monitoring of groundwater in accordance with the regulatory approved post closure plans.

Site 6b Quarry - Landfill No. 4

The results of the baseline risk assessment based on the contaminants detected in the soil and landfilled materials prior to the removal action indicated carcinogenic and non-carcinogenic risks above the manageable risk range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. Three confirmation samples (including one duplicate) were collected (IT Corporation 1997d).

The sampling detected only one organic compound, the dioxin OCDD at 0.000024 mg/kg in soil in one sample. Based on a Toxicity Equivalence Factor (TEF) of 0.0001 for OCDD, the equivalent dioxin TCDD concentration is 2.4×10^{-9} mg/kg, orders of magnitude below the residential RPRG of 3.9×10^{-6} mg/kg. No other volatile organic compounds, semivolatile organic compounds, organochlorine pesticides, PCBs, chlorinated herbicides, organophosphorus pesticides, dioxins/furans or nitroaromatics/nitroamines were detected in the confirmation samples. The removal action at Site 6b Quarry has eliminated the potential for migration of contaminants to groundwater. Based on the maximum concentrations, risks from organic compounds at Site 6b quarry after the removal action are within the manageable risk range identified in the NCP.

Metals concentrations in soil samples were below RPRGs for all detected metals except arsenic (Table 6-7). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the manageable range to residential receptors based on RPRGs and background soil concentrations.

Based on the results of confirmation samples, the Site 6b Quarry no longer poses a threat to human health and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the carcinogenic and non-carcinogenic risk has been reduced to less than 10^{-6} and 1, respectively, for residential receptors.

Table 6-7
Analytical Results for Metals in Confirmation Sediment Samples
Site 6b Quarry – Landfill No. 4
(mg/kg)

Analyte	Method	Sample No. MAFBS6B'S010	MAFBS6B'S011	MAFBS6B'S012	Maximum Background Level	RPRGs
Sb	6010	<6	<6	<6	ND	31
As	7060	0.82	0.66	0.86	5.26	0.39
Ba	6010	294	376	493	552	5400
Be	6010	0.17	0.16	0.19	10.95	150
Cd	6010	<0.5	<0.5	<0.5	ND	37 (9.0*)
Cr	6010	16.7	27.2	31.9	29.1	210
Co	6010	12.9	19.1	24.7	16.1	4700
Cu	6010	12.5	21	28.8	17	2900
Pb	6010	<5	<5	<5	17.2	1600(150*)
Hg	7471	<0.1	<0.1	<0.1	0.077	23
Ni	6010	5.8	7.9	10.3	10.4	400
Se	7740	<0.5	<0.5	<0.5	ND	390
Ag	6010	<1	<1	<1	ND	390
Tl	6010	<50	<50	<50	ND	6.3
V	6010	46.6	70.2	92.5	75.4	550
Zn	6010	42.7	61.4	81.4	413	23,000

Notes:
NA = Not Analyzed
ND = Not Detected
< = Analyte not detected, followed by Method Detection Limit (MDL).
1 = RPRGs (Preliminary Remediation Goal), Residential Soil (set to 1x10⁻⁶, or HQ of 1) EPA Region IX, 1999.
* = Cal-modified RPRG
mg/kg = milligrams per kilogram

Site 6b Pond - Landfill No. 4

The results of the baseline risk assessment based on the contaminants detected in the soil and landfilled materials prior to the removal action indicated carcinogenic and non-carcinogenic risks above the manageable range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. Confirmation samples were collected from Site 6b Pond after removal of soil and debris (Figure 6-2). Seven soil samples, seven sediment samples, and two surface water samples were collected (IT Corporation 1997d).

Organic compounds were detected in several soil and sediment samples. 4,4'-DDT and 4, 4'-DDD were detected in one soil sample at concentrations of 0.0037 mg/kg and 0.0052 mg/kg, respectively, several orders of magnitude less than the respective RPRGs of 1.7 and 2.4 mg/kg. PAHs were detected in soil samples (Tables 6-8), but no concentrations exceeded RPRGs. Some long-chain hydrocarbons were also detected in soil and sediment samples (Table 6-9). Dioxins and furans were detected in soil samples (Table 6-10). Based on the sample with the maximum concentrations, the equivalent dioxin TCDD concentration is 1×10^{-5} mg/kg, approximately one order of magnitude above the residential RPRG of 3.9×10^{-6} mg/kg, but within the manageable carcinogenic risk range of 10^{-4} to 10^{-6}. The concentration of dioxins and furans in the remaining samples is generally orders of magnitude less. No other volatile organic compounds, semivolatile organic compounds, organochlorine pesticides, PCBs, chlorinated herbicides, organophosphorus pesticides, dioxins/furans or nitroaromatics/nitroamines were detected in the confirmation soil or sediment samples. Based on the maximum concentrations, there are no risks above the manageable risk range to residential receptors from organic compounds at Site 6b Pond.

The removal action at Site 6b Pond has eliminated the potential for migration of contaminants to groundwater. Metals concentrations in soil and sediment samples were below RPRGs for all detected metals except arsenic and thallium (Table 6-11). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Thallium is not believed to be elevated because the test methodology at the time of the RI caused overestimation of thallium concentrations due to iron interference. Therefore, potential residual metals in soils after the removal action do not pose a risk above the manageable range to residential receptors based on RPRGs and background soil concentrations at Site 6b Pond.

No volatile organic compounds, semivolatile organic compounds, organochlorine pesticides or PCBs were detected in the surface water samples from the Site 6b Pond. Only two metals were detected, barium and zinc (Table 6-12). No MCLs or RPRGs were exceeded. MCLs were used as action levels in this case because this pond is recharged by groundwater.

Based on the results of confirmation samples, the Site 6b Pond no longer poses a threat to human health above the manageable range identified in the NCP and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the risk has been reduced to levels within the manageable range. The estimated risk level is based on conservative exposure assumptions and maximum detected concentrations; and therefore, likely overestimates the actual exposures to residents.

Site 12 - Civil Engineering Yard

The results of the baseline risk assessment based on the contaminants detected in the soil prior to the removal action indicated carcinogenic and non-carcinogenic risks above the manageable risk range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed in the wash rack area as previously described. Confirmation samples were taken to document the effectiveness of the removal action in mitigating risk (Figure 6-3) (IT Corporation 1997e).

The confirmation samples show residual PAHs and pesticides (Table 6-13). All detected compounds were orders of magnitude less than the RPRGs. Petroleum hydrocarbons were detected in the soil samples. The regulators agreed that residual petroleum hydrocarbons could remain in place because the physical setting would limit exposure. Additionally, petroleum hydrocarbons are excluded under CERCLA. No other volatile organics, semivolatile organics, organochlorine pesticides, chlorinated herbicides, organophosphorus pesticides, or nitroaromatics/nitroamines were detected in the confirmation samples. Therefore, no organic compounds show risk above the manageable range at the washrack area after the removal action.

Metals testing in the excavation at the washrack show some metals may continue to be a risk to residential receptors. Metals concentrations in soil samples were below RPRGs for all detected metals except arsenic, cadmium and hexavalent chromium (Table 6-14). Most metals concentrations are orders of magnitude below their respective RPRGs. Cadmium concentrations (to 20 mg/kg) are higher than the Cal Modified RPRG of 9 mg/kg but well below the industrial PRG of 810 mg/kg. Hexavalent chromium concentrations (1.8 mg/kg) are higher than the Cal Modified residential RPRG of 0.2 RPRG but well below the industrial RPRG of 64 mg/kg.

Some arsenic concentrations exceed the RPRG, but are within the background levels for soils on the Main Base established in the OU2 RI. As with the residual petroleum hydrocarbons, the regulators agreed that these metals could remain in place because the physical setting would limit exposure.

In the past, the 1-1 DCE vapors concentrations found in shallow soils at Site 12 were thought to pose an unacceptable cancer risk to potential future residents. Recently (circa 2002), 1-1 DCE was determined to not be a suspected human carcinogen. The RPRG is now approximately 1000 times less stringent. Therefore, the 1-1 DCE vapors in shallow soils at Site 12 do not pose a risk to potential future residents or industrial workers.

Based on analytical results from samples taken after the removal action at the wash rack and residual contamination in the groundwater, Site 12 continues to show a risk within the risk range identified in the NCP to potential future residents. Carcinogenic risk to industrial workers, if no controls are imposed, is slightly above 1×10^{-6} risk but within the risk range identified in the NCP. Contact and ingestion of soil, and use of the groundwater may cause levels of risk above the range identified in the NCP to residents. Remedial alternatives were evaluated to control potential risks. Remedial alternatives are described in Section 7, Description of Alternatives.

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SITE 6b POND

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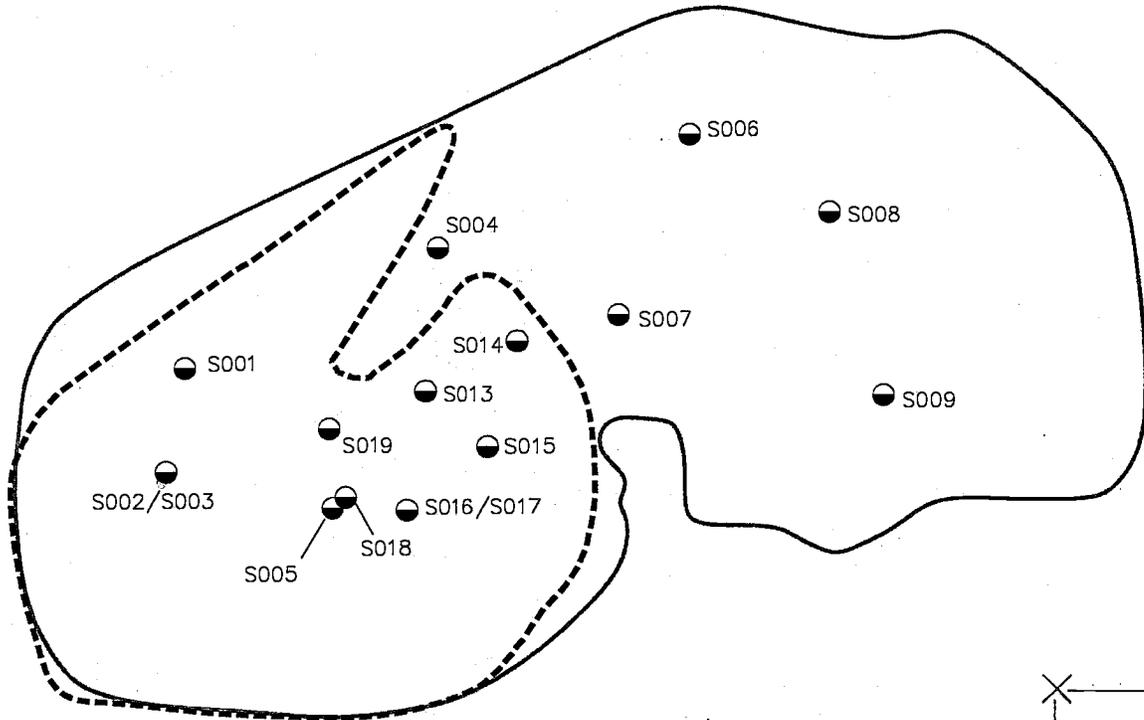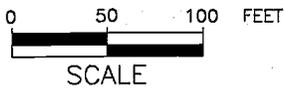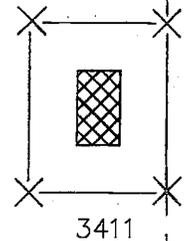
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- - - - - APPROXIMATE LIMIT OF EXCAVATION

◑ SAMPLE LOCATION

──── APPROXIMATE SITE BOUNDARY

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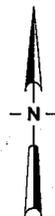
United States Air Force

March ARB

Site 6b
Landfill No.4
Confirmation Sample Locations

Figure

6-2

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Table 6-8
Analytical Results for Volatile/Semivolatile Organics in Confirmation Soil and Sediment Samples
Site 6b Pond - Landfill No. 4
(mg/kg)

Analyte	Method	Sample No.									Maximum Concen-tration	Mean Sample Concen-tration	RPRGs[1]
		MAFB S6B'S001	MAFB S6B'S002	MAFB S6B'S003	MAFB S6B'S004	MAFB S6B'S005	MAFB S6B'S006	MAFB S6B'S007	MAFB S6B'S008	MAFB S6B'S009			
2-Butanone	8260	<0.01	<0.01	<0.01	<0.01	0.012					0.012	0.006	7,300
Phenanthrene	8310/8270	<0.12	<0.12	<0.12	<0.12	1.9	0.49	<0.33	<0.33	<0.33	1.9	0.33	56[2]
Anthracene	8310	<0.14	<0.14	<0.14	<0.14	0.41					0.41	0.14	22,000
Pyrene	8270						0.58	<0.33	<0.33	<0.33	0.58	0.25	2,300
Fluoranthene	8270						0.69	<0.33	<0.33	<0.33	0.69	0.27	2,300
Chrysene	8270						0.35	<0.33	<0.33	<0.33	0.35	0.2	62 (6.1*)
Benzo(k)fluor-anthene	8270						<0.004	0.0089	<0.004	<0.004	0.0089	0.003	6.2 (0.61*)
Benzo(b)fluor-anthene	8310						<0.004	0.014	<0.004	<0.004	0.014	0.004	0.62
Benzo(b) fluoranthene	8370						0.4	<0.33	<0.33	<0.33	0.4	0.21	0.62

Notes:
* = Cal-modified RPRG
1 = RPRG (Preliminary Remediation Goal), Residential Soil (set to 1 x 10⁻⁶ or HQ of 1), EPA Region IX, 1999.
2 = Naphthalene used as surrogate
< = Concentration less than listed method detection limit.
mg/kg = milligrams per kilogram.

Table 6-9
Analytical Results for Hydrocarbon Fuel Tests in Soil and Sediment Samples
Site 6b Pond - Landfill No. 4
(mg/kg)

Analyte	Method	MAFB S6B'S 002	MAFB S6B'S 003	MAFB S6B'S 004	MAFB S6B'S 005	MAFB S6B'S 006	MAFB S6B'S 007	MAFB S6B'S 008	MAFB S6B'S 009	MAFB S6B'S 014	MAFB S6B'S 015	MAFB S6B'S 016	MAFB S6B'S 017	MAFB S6B'S 018	MAFB S6B'S 019	Maximum Concentration
Kerosene	MOD 8015	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	
Stoddard Solvent	MOD 8015	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	
Jet Fuel	MOD 8015	<10	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	
Diesel Fuel #2	MOD 8015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
TPH (gasoline)	MOD 8015	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
TRPH	418.1	<10	15	<10	4,800	<10	130	<10	<10	<10	11	12	10	13	<10	4,800

Notes: NA = Not Analyzed
< = Concentration less than listed method detection limit
mg/kg = Milligrams per kilogram.

AFRPA OU2 ROD (former March AFB)

Table 6-10
Analytical Results for Dioxins and Furans in Confirmation Soil and Sediment Samples
Site 6b Pond - Landfill No. 4[1]
(mg/kg)

Analyte	Method	Sample No. MAFBS6B' S001	MAFBS6B' S002	MAFBS6B' S003	MAFBS6B' S004	MAFBS6B' S005	MAFBS6B' S006	MAFBS6B' S007	MAFBS6B' S008	MAFBS6B' S009	Maximum Concen-tration	TEF
TCDFs (total)	8290	5.10E-06	1.10E-06	<6.00E-07	<6.00E-07	<6.00E-07	1.20E-06	7.50E-06	1.70E-05	1.40E-06	1.70E-05	
PeCDFs (total)	8290	9.90E-06	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06	5.70E-06	5.70E-06	
HxCDFs	8290	1.50E-04	<6.00E-07	<6.00E-07	<6.00E-07	<6.00E-07	<6.00E-07	<6.00E-07	<6.00E-07	2.90E-05	2.90E-05	
1,2,3,4,7,8-HxCDF	8290	2.10E-05	<6.00E-07	<6.00E-07	<6.00E-07	<6.00E-07						1.00E-02
HpCDF(total)	8290	6.40E-04	<9.00E-07	<9.00E-07	<9.00E-07	<9.00E-07	<9.00E-07	2.00E-04	1.40E-05	5.00E-05	2.00E-04	
1,2,3,4,6,7,8-HpCDF	8290	1.10E-04	<9.00E-07	<9.00E-07	<9.00E-07	<9.00E-07	<9.00E-07	6.70E-06	5.60E-06	1.70E-05	1.70E-05	1.00E-02
1,2,3,4,7,8,9-HpCDF	8290	1.50E-05	<2.00E-07	<2.00E-07	<2.00E-07	<2.00E-07						1.00E-02
OCDF	8290		<2.20E-06	<2.20E-06	<2.20E-06	<2.20E-06	<2.20E-06	2.40E-05	1.40E-05	3.00E-05	3.00E-05	1.00E-03
TCDDs (total)	8290		<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	2.70E-06	<7.00E-07	2.70E-06	
HxCDDs (total)	8290		<1.30E-06	<1.30E-06	<1.30E-06	<1.30E-06	<1.30E-06	<1.30E-06	<1.30E-06	7.60E-05	7.60E-05	
1,2,3,6,7,8-HxCDD	8290		<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	9.40E-06	9.40E-06	1.00E-01
1,2,3,7,8,9-HxCDD	8290		<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	<7.00E-07	6.80E-06	6.80E-06	1.00E-01
HpCDDs (total)	8290		<3.00E-06	<3.00E-06	<3.00E-06	<3.00E-06	2.00E-05	9.10E-05	5.10E-05	8.00E-04	8.00E-04	
1,2,3,4,6,7,8-HpCDD	8290		<2.20E-06	<2.20E-06	<2.20E-06	<2.20E-06	9.00E-06	3.20E-05	2.00E-05	3.90E-04	3.90E-04	1.00E-02
OCDD	8290		7.90E-05	3.10E-05	3.00E-05	<1.60E-06	7.90E-05	3.40E-04	2.40E-04	5.30E-03	5.30E-03	1.00E-03

Notes: < = Concentration less than listed method detection limit.
        [1] = This table presents the results for tested congeners of dioxins and furans in these samples.
  mg/kg = milligrams per kilogram.
  TEF = Toxicity Equivalency Factor.

Table 6-11
Analytical Results for Metals in Confirmation Soil and Sediment Samples
Site 6b Pond – Landfill No. 4
(mg/kg)

Analyte	Method	Soil Sample No.								Sediment Sample No.						Maximum Concen-tration	Mean Sample Concen-tration	Maximum Background Levels	RPRGs[1]
		MAFB S6B'S002	MAFB S6B'S003	MAFB S6B'S004	MAFB S6B'S005	MAFB S6B'S006	MAFB S6B'S007	MAFB S6B'S008	MAFB S6B'S009	MAFB S6B'S014	MAFB S6B'S015	MAFB S6B'S016	MAFB S6B'S017	MAFB S6B'S018	MAFB S6B'S019				
Sb	6010	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6		3	ND	31
As	7060	<0.38	0.50	0.65	0.68	0.57	1.0	2.5	1.2	0.64	0.66	0.39	0.45	0.49	0.31	2.5	0.73	5.26	0.39
Ba	6010	354	323	259	84.8	397	121	349	291	680	320	550	330	170	170	550	322	552	5,400
Be	6010	<0.14	<0.14	0.21	<0.14	0.24	0.4	0.7	0.25	0.42	0.2	0.36	0.29	0.12	0.34	0.7	0.23	10.95	150
Cd	6010	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.3	ND	37 (9.0*)
Cr	6010	17.3	13.7	16.4	5.9	21.5	14.7	33.5	19.2	29	15	23	20	11	15	33.5	18.7	29.1	210
Co	6010	14	11.4	13	5	17.7	9.4	20.1	12.7	18	11	19	16	7.2	<1	24.7	13.1	16.1	4,700
Cu	6010	8.7	9.8	9.2	9.7	13.7	10.7	27.2	11.1	28.8	28.8	28.8	9.4	10	7.4	28.8	15.5	17	2,900
Pb	6010	<5	<5	<5	18.7	12.7	12.8	18.2	12.2	7.5	<5	5.5	6.4	<5	<5	18.7	6.6	17.2	400
Hg	7471	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		0.005	0.077	23
Ni	6010	6	4.7	6.2	4	8.1	8.7	14.9	7.1	26	8	11	11	5.2	<4	26	8.3	10.4	1600 (150*)
Se	7740	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		0.25	ND	390
Ag	6010	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		0.5	ND	390
Tl	6010	<50	<50	<50	<50	<50	<50	<50	<50	<50	13	18	20	<50	<50	20	23.7		6.3
V	6010	50.2	39.6	43.1	15.3	61.7	32.9	83.4	48.1	110	50	92	72	30	38	110	55.3	75.4	550
Zn	6010	50.2	39.4	43	114	66	44.8	89.5	63.5	82	41	69	65	23	24	114	57.7	413	23,000

Notes: ND = Not Detected
< = Analyte not detected, followed by method detection limit.
mg/kg = milligrams per kilogram
1 = RPRG (Preliminary Remediation Goal), Residential Soil (set to 1x10⁻⁶ or HQ of 1), EPA Region IX, 1999.

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Table 6-12
Analytical Results for Metals in Confirmation Surface Water Samples
Site 6b Pond - Landfill No. 4
(µg/L)

| Analyte | Method | Sample No. | |
		MAFBS6B'W001	MAFBS6B'W002
Sb	6010	<5	<5
As	7060	<5	<5
Ba	6010	81	170
Be	6010	<2	<2
Cd	6010	<2	<2
Cr	6010	<5	<5
Co	6010	<10	<10
Cu	6010	<20	<20
Pb	6010	<3	<3
Hg	7471	<0.5	<0.5
Mo	6010	<20	<20
Ni	6010	<40	<40
Se	7740	<5	<5
Ag	6010	<5	<5
Tl	6010	<10	<10
V	6010	<10	<10
Zn	6010	<20	22

Notes: < = Concentration less than listed method detection limit.
µg/L = micrograms per liter

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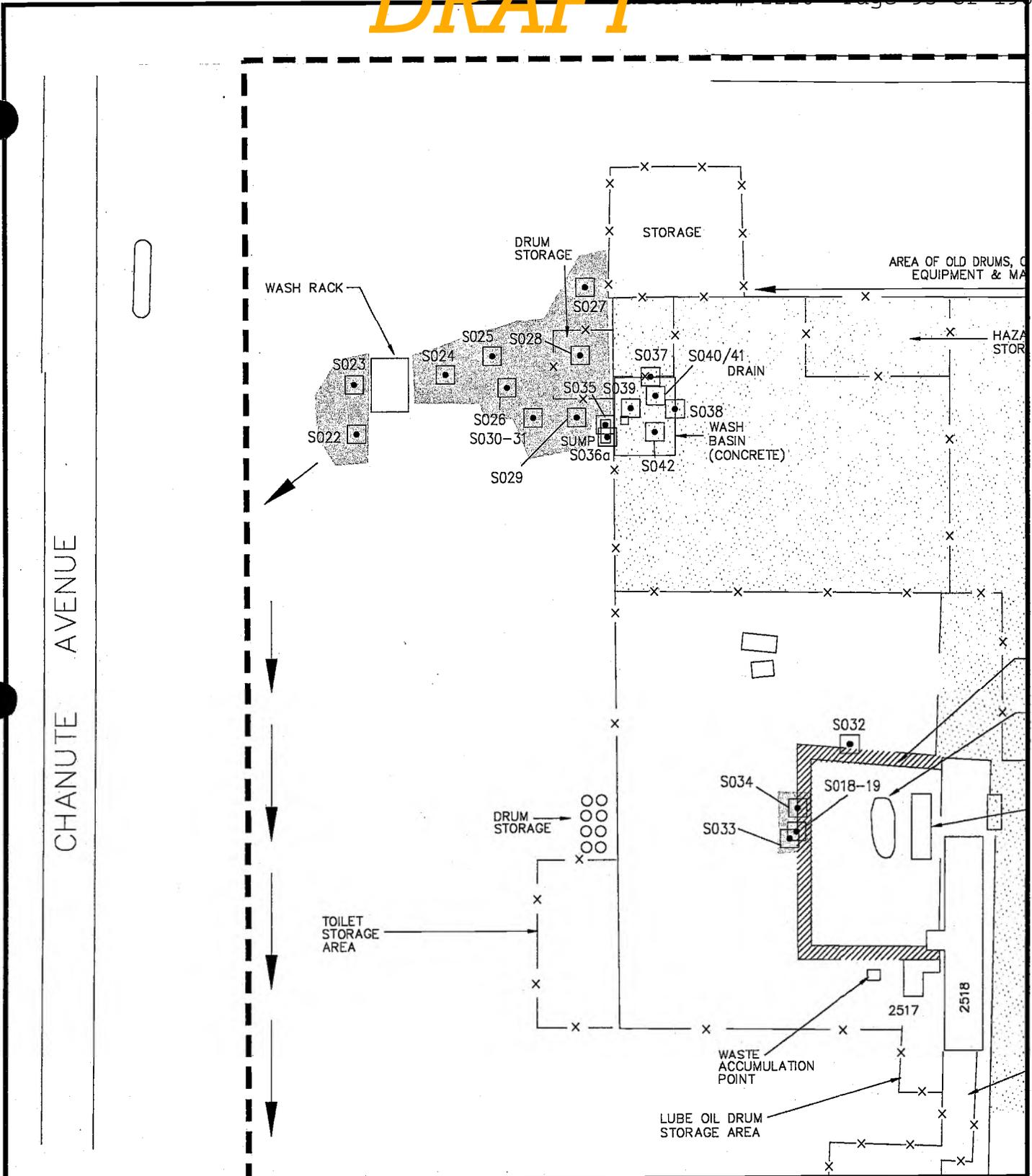
CHANUTE AVENUE

WASH RACK

DRUM STORAGE

STORAGE

AREA OF OLD DRUMS, EQUIPMENT & MA

HAZA STOR

S027

S025 S028

S024

S023

S037 S040/41
DRAIN

S035 S039

S038
WASH BASIN (CONCRETE)

S026

S030-31

SUMP

S036a

S042

S029

S022

DRUM STORAGE

S032

S034 S018-19

S033

TOILET STORAGE AREA

2517 2518

WASTE ACCUMULATION POINT

LUBE OIL DRUM STORAGE AREA

LEGEND

— — —	Approximate Site Boundary	Paved Area
▨	Reported Waste Oil Burial Trench	◄ Unlined Earth Swale
▨	Approximate Extent of Excavation	
⊡	Confirmation Sample Location	

SCALE
0   40   80   FEET

— N —
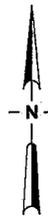
United States Air Force

March ARB

Site 12
Civil Engineering Yard
Areas Removed During
the Removal Action

Figure
6-3

x:\GIS\A212-14\OU2 AFBCA ROD\SITE_12_DETAIL.DWG 11/17/2000

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Table 6-13
Analytical Results for Organic Compounds in Confirmation Soil Samples
Site 12 - Civil Engineering Yard
(mg/kg)

Analyte	Sample No.								
	S035	S036a	S037	S038	S039	S040	S041(D)	S042	RPRGs[1]
Phenanthrene	<0.022	NA	0.899	0.91	<0.022	<0.022	<0.022	<0.022	56[2]
Fluoranthene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	2300
Pyrene	<0.022	NA	0.051	<0.022	<0.022	<0.022	<0.022	<0.022	2300
Benzo(k)fluoranthene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	6.2(0.61)*
Fluorene	<0.022	NA	1.4	0.678	<0.022	<0.022	<0.022	<0.022	2600
Chrysene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	62(6.1*)
Benzo(a)anthracene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.62
Benzo(a)pyrene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.062
Benzo(b)fluoranthene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.62
Indeno(2,3,3-c,d)pyrene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	0.62
2-Methyl naphthalene	<0.022	NA	1.4	<0.022	<0.022	<0.022	<0.022	<0.022	56[2]
Benzo(g,h,i)perylene	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	56[2]
4,4'-DDD	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	2.4
4,4'-DDE	0.016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1.7
4,4'-DDT	0.021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	1.7
Dieldrin	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
TRPH	14	NA	7,200	3,000	15	25	20	19	NE
TPH (D)	<1	NA	7,800	5,100	<1	<1	<1	<1	NE
TPH (G)	<1	NA	1.2	2.7	0.1	<1	<1	<1	NE
TPH (J)	<10	NA	<10	<10	<10	<10	<10	<10	NE

Notes:　NA　=　Not analyzed
　　　　　NE　=　Not established
　　　　　(D)　=　Diesel
　　　　　(G)　=　Gasoline
　　　　　(J)　=　Jet Fuel
　　　　　1　=　RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1×10^{-6} and HQ of 1), EPA Region IX, 1999.
　　　　　2　=　Naphthalene used as surrogate
　　　　　<　=　Concentration less than listed method detection limit

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Table 6-14
Analytical Results for Metals in Confirmation Soil Samples
Site 12 – Civil Engineering Yard
(mg/kg)

Analyte	Sample No.												
	S022	S023	S024	S025	S026	S027	S028	S029	S030	S031	S032	S033	S034
Cd	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
As	1	1.3	2	3.1	1.4	1.2	1.4	1.6	1.9	2.5	1.8	1.2	2.9
Ba	67.2	97.9	116	103	103	94.4	93.9	103	78.4	132	75.4	52.7	152
Be	0.39	0.49	0.56	0.72	0.62	0.5	0.54	0.63	0.57	0.85	0.42	0.37	0.98
Cr	16.5	16.7	17.6	22.6	18.3	17.6	15.1	18.4	17.7	27.5	13.7	10.1	24.2
Co	9.2	9.7	11.6	13.1	13.3	11.1	10.1	12.2	9.1	8.6	9.5	7.4	13.3
Cu	9.5	9	11.4	11.7	9.6	11.2	9.5	12.6	8.1	13.2	9.5	7.5	14.1
Pb	<5	<5	<5	6.6	5.3	<5	<5	5.5	5	5.4	<5	<5	7.4
Ni	8.8	9.8	10.5	12.5	11.9	10.4	9.5	11.8	9.8	11.4	7.9	5.7	16.1
V	29.2	32	38.4	48.5	40.7	34.7	33.8	40.9	36.6	53.3	31.4	24	27.3
Zn	35.2	41.2	46.3	50.8	41.3	42.8	43.2	49.9	36.6	59.1	36.6	27.3	54.9
CrVI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Analyte	Sample No.									Maximum Main Base Background Concentrations (all depths)	RPRGs[1]
	S022	S035	S036	S037	S038	S039	S040	S041	S042		
Cd	<0.5	11	14	18	14	11	20	11	17	1.3	37 (9*)
As	1	0.8	1.1	0.95	0.75	0.51	0.72	0.74	0.75	6.5	0.39
Ba	67.2	67	120	91	80	48	110	150	120	916	5,400
Be	0.39	0.29	0.34	0.43	0.34	0.31	0.52	0.33	0.51	1.3	150
Cr	16.5	7.4	16	12	8.9	6.2	11	7.2	10	21	210
Co	9.2	7.5	9.1	9.8	8.6	5.8	8.3	6.3	10	16	4,700
Cu	9.5	7.7	20	13	10	5.3	9.1	4.9	8.8	16.1	2,900
Pb	<5	7.2	71	7.1	6.1	8	10	6.8	8.6	40.7	400
Ni	8.8	4.6	<4	6.3	5.8	<4	6.6	<4	9.1	10.3	1600 (150*)
V	29.2	22	27	32	26	21	33	25	33	62.8	550
Zn	35.2	33	69	46	42	24	46	25	44	512	23,000
CrVI	NA	0.25	0.61	<0.1	<0.1	<0.1	<0.1	1.8	<0.1	NE	30 (0.2*)

Notes: NA = Not analyzed
< = Less than the listed method detection limit
* = Cal-Modified RPRG
mg/kg = milligrams per kilogram
(1) = RPRGs (Preliminary Remediation Goals), Residential Soil (Set to 10^-6 or HQ of 1), EPA Region IX, 1999.

AFRPA OU2 ROD (former March AFB)

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Site 17 - Swimming Pool Fill

The results of the baseline risk assessment based on the contaminants detected in the soil after the removal action indicated carcinogenic risks above the risk range identified in the NCP to future on-site residents and construction workers (Table 6-1, 6-2, and 6-3). The baseline risk assessment reflects the conditions after the removal action since the removal action was conducted (Tetra Tech, Inc. 1994) prior to the completion of the OU2 RI (Tetra Tech, Inc. 1997a). Soil contact and ingestion of PCBs were the major contributor to carcinogenic risks to future residents and future construction workers with risks between 10^{-4} and 10^{-6}. As with all sites at March AFB, groundwater in the area of Site 17 is not currently consumed, and no receptors were identified to be at increased risk from exposure to groundwater. For future on-site residents, increased risk was identified from ingestion and dermal contact with groundwater affected by chloroform. Risks to future residents from chloroform detected in the Site 17 groundwater monitoring wells was between 10^{-4} and 10^{-6} for carcinogenic risk and less than 1 for non-carcinogenic risks. Based on the basewide groundwater sampling, the chloroform is part of a larger plume within the Main Base area of March Air Force Reserve Base and is not believed to be related to contaminants at Site 17. Additionally, the chloroform levels do not exceed MCLs. Modeling did not show any impact to groundwater from contaminants detected in the soils.

Based on the results of confirmation samples (Table 6-15 and Figure 6-4), the site may pose a threat to human health if soils beneath 8 feet below the ground surface are exposed. The detected concentrations are above residential RPRGs and most exceed the industrial RPRG of 1.0 mg/kg. Remedial alternatives were evaluated to control risks from exposure to the soils below 8 feet. Remedial alternatives are described in Section 7, Description of Alternatives.

Site 19 - West March Sludge Drying Beds

The results of the baseline risk assessment indicated carcinogenic and non-carcinogenic risks above the risk range identified in the NCP to future on-site residents, industrial workers, and construction workers (Table 6-1, 6-2, and 6-3). A major contributor to this risk is the hypothetical use of the groundwater as a potable source.

Groundwater in the area of Site 19 is not currently consumed, and no current receptors were identified to be at increased risk from exposure to groundwater. For future on-site residents, risks above the manageable range were identified from the ingestion and dermal contact with groundwater contaminated by arsenic, dieldrin, heptachlor epoxide, and 4-chloroaniline. Further analysis of arsenic under a basewide groundwater monitoring program has shown the levels to be consistent with background levels of arsenic in the area of March AFB. Therefore, the levels of arsenic detected in the groundwater are believed to be indicative of background and not a result of Air Force activities at the site. Additionally, groundwater and bedrock are shallow in this area and the potential for future use of groundwater as a potable source is extremely unlikely.

If the site remains as a sludge drying area, risks to future workers may be overestimated because of assumptions on the frequency and duration of exposures. However, if no remediation were performed, on-site residents could be exposed to risks above the manageable risk range identified in the NCP. Based on the expected use of the site as an industrial area and uncertainties in the risk assessment, industrial risks may be within the manageable range. Remedial alternatives were evaluated to control risks above the NCP range. Remedial alternatives are discussed in Section 7.0, Description of Alternatives.

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Table 6-15
Analytical Results for PCBs in Soil Confirmation Samples
Site 17 - Swimming Pool Fill
(mg/kg)

Analyte	5M17B1			5M17B2		5M17B3		5M17B4		17-EX-79,83	17-EX-65,50	17-EX-64,50,5	17-EX-78,25,57	17-EX-72,5,83,5	Residential RPRGs
Depth (feet)	5	10	15	7.5	12.5	8.5	13.5	11.5	16.5	10	13	13	12.75	11.5	
Aroclor 1254	<0.012	<0.012	<0.012	<0.012	<0.012	0.021	<0.012	<0.012	<0.012	3.8	0.8	<1.1	2.8	4.4	0.22
Aroclor 1260	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	0.014	<0.012	<1.1	<1.2	<1.1	<1.2	<1.1	0.22

Notes: < = Analyte not detected followed by the method detection limit.
1 = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1x10^{-6} and HQ of 1), EPA Region IX, 1999.
Tests performed by EPA Method 8080
mg/kg = milligrams per kilogram

AFRPA OU2 ROD (former March AFB)

6-32

SCALE : 1"=5000'

POOL

17-EX-725,835,11.5
⊗ ⊕ 5M17B2
⊗ 17-EX-79,83,10
⊕
17-EX-65,50.5,13   5M17B3
⊗
⊕ 5M17B4
⊕ 5M17B1
17-EX-78.25,57,12.75

DEKAY AVE

Inferred Groundwater
Flow Direction

334

333

335

346

344

345

U ST

K ST

334

-N-

0   25   50 FEET

SCALE

LEGEND

⊕ Stage 5 Boring

⊗ Confirmation Sample

▨ Approximate Extent of
    Excavated Area

United States Air Force

March ARB

Site 17
Swimming Pool Fill
Confirmation Sample Locations

Figure

6-4

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Site 20 - Landfill No. 7

The results of the baseline risk assessment for the contaminants detected in the soil, landfilled materials, and groundwater prior to the removal action indicated carcinogenic risks above the range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. After completion of excavation activities for the removal action, 13 confirmation samples were taken to confirm that any residual contamination would not pose a risk to human health (Figure 6-5) (IT Corporation 1997f).

Metals concentrations in soil confirmation samples were below RPRGs for all detected metals except arsenic (Table 6-16). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs and background soil concentrations.

Benzo(b)fluoranthene and benzo(k)fluoranthene were detected in one sample at concentrations less than the RPRG (Table 6-16). Chrysene was not detected during the site investigation but was detected in two confirmation samples at concentrations well below the RPRGs. No other volatile organics, semivolatile organics, organochlorine pesticides, chlorinated herbicides, organophosphorus pesticides, or nitroaromatics/ nitroamines were detected in the confirmation samples. Therefore, potential residual organics in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs.

The removal action at Site 20 has eliminated the potential for migration of contaminants to groundwater.

Based on the results of confirmation samples, the Site 20 no longer poses a threat to human health and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the carcinogenic risk has been reduced to less than 10^{-6} for residential receptors.

Site 22 - Landfill No. 2

Based on information obtained during the OU2 RI and basewide groundwater sampling programs, there was no evidence of a landfill and/or buried wastes at Site 22. Soil and groundwater sampling did not detect contaminants above background values or from a source such as landfilling activities. Therefore, a baseline risk assessment was not performed and no further action is required.

Site 23 - East March Effluent Pond

Based on information obtained during the OU1 RI and basewide groundwater sampling programs, residual contamination attributable to past activities by the Air Force was not detected. Silver may be above background levels in surface soils (the soils backfilled into the pond), but subsurface samples did not show elevated concentrations of silver or any other metal. Pesticides were detected at concentrations typical of Main Base background levels and this area has been used for agricultural purposes. Other detected organic compounds were known common laboratory contaminants. Therefore, a baseline risk assessment was not performed and no further action is required.

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SITE 26a

SITE 26b

⊗ S001
⊗ S002
⊗ S004
⊗ S003
⊗ S007
⊗ S005
⊗ S006
⊗ S008
⊗ S009
S010
⊗ S011
⊗ S012
⊗ S013

SITE 20

-N-
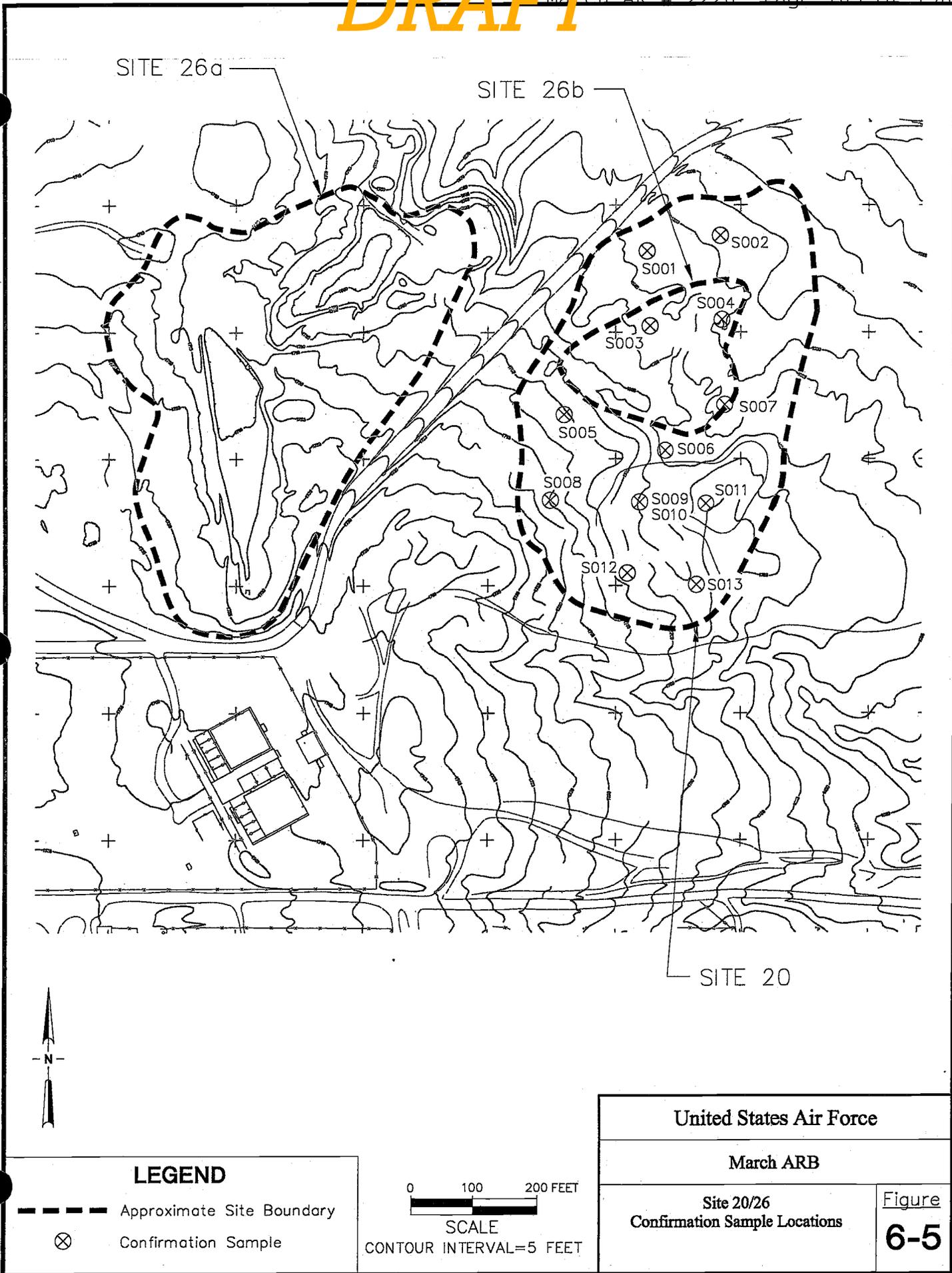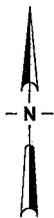
LEGEND

- - - Approximate Site Boundary

⊗ Confirmation Sample

0   100   200 FEET

SCALE
CONTOUR INTERVAL=5 FEET

United States Air Force

March ARB

Site 20/26
Confirmation Sample Locations

Figure

6-5

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Table 6-16
Analytical Results for Metals and PAHs in Soil Confirmation Samples
Site 20 - Landfill No. 7
(mg/kg)

| Analyte | Method | Sample No. | | | | | | | | | | | | | Average Confirmation Sample Concentration | Maximum West March Background Concentration (all depths) | RPRGs[1] |
		S001	S002	S003	S004	S005	S006	S007	S008	S009	S010	S011	S012	S013			
As	7060	1.2	1.2	1	0.91	1	0.84	1.2	1	1.2	0.8	1.4	0.94	0.8	1.04	5.28	0.39
Ba	6010	494	285	627	859	670	526	504	553	452	345	531	429	104	452	552	5400
Be	6010	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.2	0.14	<0.14	<0.14	0.21	0.1	10.9	150
Cr	6010	20.6	14.7	26.2	22.3	29.4	21.3	24.7	18.8	24.2	19.2	31.2	18.4	2.3	21	29.1	210
Co	6010	17.3	14	22.8	19.3	26	17.4	17.8	16.7	20.8	16.1	20.1	18.4	3.7	17.7	16.1	4700
Cu	6010	5	20.9	11.9	10.3	5.8	6.5	12.5	9.9	8.9	8.7	8.7	4.9	2.2	8.9	17	2900
None identified	6010	7.1	4.9	9.2	7.7	10.2	7.1	6.8	6.3	8.5	6.6	10	6.8	2	7.2	10.4	1600 (150*)
V	6010	60.7	47.2	80.5	67.1	94.8	58.8	66.2	62.4	76.1	58.4	64	60.9	14.2	62.4	75.4	550
Zn	6010	53.1	36.8	72	53.7	78.5	52.7	56.4	52.2	76.4	58	58.1	52.9	33.8	56.5	413	23,000
Chrysene	8270	<0.04	0.061	<0.04	0.75	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.08		62 (6.1*)
Benzo(b)fluoroanthene	8270	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002		0.62
Benzo(k)fluoroanthene	8270	<0.004	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002		6.2 (0.61*)

Notes: <   =   Analyte not detected followed by the method detection limit.
        1   =   RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1×10^{-6} and HQ of 1), EPA Region IX, 1999.
        *   =   Cal-modified RPRG
        mg/kg =   milligrams per kilogram

Site 24 - Landfill No. 1

The results of the baseline risk assessment for the contaminants detected in the soil, landfilled materials, and groundwater prior to the removal action indicated carcinogenic and non-carcinogenic risks above the range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. After completion of excavation activities for the removal action, confirmation samples were taken to confirm that any residual contamination would not pose a risk to human health (Figure 6-6) (IT Corporation 1997g).

No volatile organics, semivolatile organics, organochlorine pesticides, chlorinated herbicides, PCBs, PAHs, organophosphorus pesticides, or nitroaromatics/nitroamines were detected in the confirmation samples. Two confirmation samples had low levels of total recoverable petroleum hydrocarbons (to 37 mg/kg). Therefore, potential residual organics in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs.

Metals concentrations in soil confirmation samples were below RPRGs for all detected metals except arsenic (Table 6-17). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs and background soil concentrations. The removal action at Site 24 has eliminated the potential for migration of contaminants to groundwater.

Based on the results of confirmation samples, the Site 24 no longer poses a threat above the range identified in the NCP to human health and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the carcinogenic and non-carcinogenic risk has been reduced to less than 10^{-6} and 1, respectively, for residential receptors.

United States Air Force

March ARB

Site 24
Landfill No.1
Post-Excavation Topography &
Confirmation Sample Locations

Figure
6-6

LEGEND

– – – – Approximate Site Boundary

——— —— Limits of Excavation

☐ IT Confirmation
Sample Location

SCALE
0   50   100 FEET

CONTOUR INTERVAL=1 FOOT

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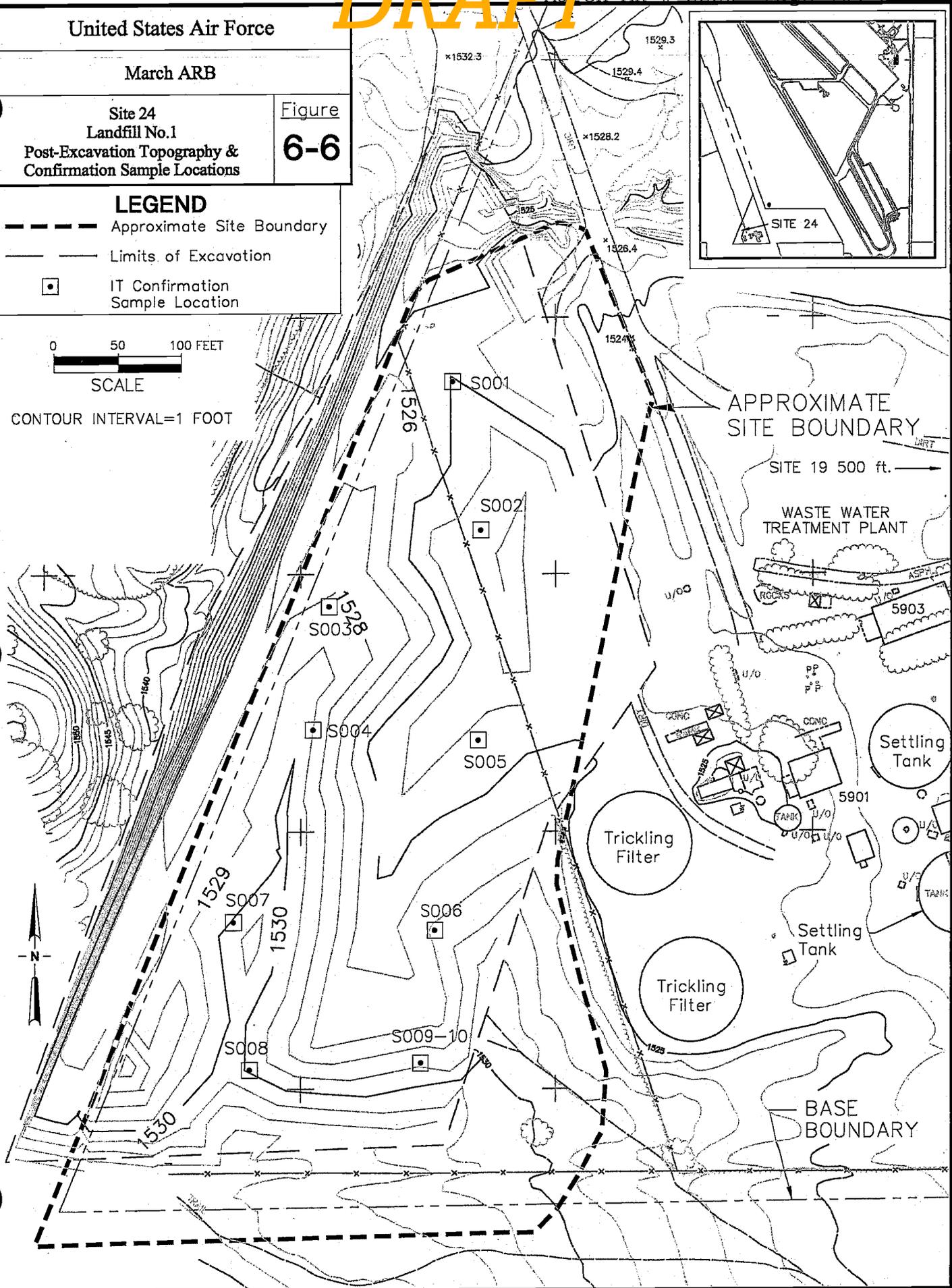
Table 6-17
Analytical Results for Metals Detected in Confirmation Soil Samples
Site 24 - Landfill No.1
(mg/kg)

Analyte	Method	Sample No.										Average Confirmation Sample Concentration	Maximum West March Background Concentration	RPRGs[1]
		S001	S002	S003	S004	S005	S006	S007	S008	S009	S010			
As	7060	1.8	0.88	1.2	1.8	1.8	1.6	1.8	1.3	.2	2	1.618	5.28	0.39
Hg	7471	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	0.056	0.08	23
Ba	6010	207	425	395	157	248	144	160	203	230	242	241.1	552	5400
Be	6010	0.32	0.19	0.19	0.3	0.18	0.28	0.3	0.28	0.4	0.38	0.282	10.9	150
Cr	6010	16.9	25.8	19.9	16.6	21	14.8	15.9	16.6	22.7	21.6	19.18	29.1	210
Co	6010	10.5	21.2	13.5	10.9	17.5	8.9	10	11.4	15	14.3	13.32	16.1	4700
Cu	6010	14.7	36.3	45.3	11.2	18.6	10.8	10.8	12.6	17.6	16.2	19.41	17	2900
Pb	6010	<5.0	<5.0	<5.0	<5.0	6	7.4	<5.0	5.3	<5.0	5.2	3.89	17.2	400
Ni	6010	7.7	8.4	6.8	7.6	8.5	9.3	6.5	7.5	10.5	10.1	8.29	10.4	1600 (150*)
V	6010	41.8	74.7	52	38.5	63.5	37.2	42.2	40.6	56.7	53.2	50.04	75.4	550
Zn	6010	35.1	59.1	39.5	37.5	60.2	37.4	32.4	41.3	52.5	51.9	44.69	413	23,000

Notes: < = Analyte not detected above the indicated reporting limit.
For the purpose of calculating mean concentrations, non-detects are considered equal to 1/2 the reporting limit.
* = Cal-modified RPRG.
[1] = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1x10⁻⁶ and HQ of 1), EPA Region IX, 1999.
mg/kg = milligrams per kilogram

Site 25 - Munitions Residue Burial Site

The results of the baseline risk assessment for the contaminants detected in the soil, buried materials, and groundwater at Site 25 prior to the removal action indicated carcinogenic risks above the range identified in the NCP to future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed as previously described. Additionally, the removal action mitigated physical hazards that are not considered in the baseline risk assessment that could arise from undetonated munitions that might have been buried in the disposal trenches. After completion of excavation activities for the removal action, 13 confirmation samples were taken to confirm that any residual contamination would not pose a risk to human health (Figure 6-7) (IT Corporation 1997h).

The sampling showed residual dioxins, 4,4'-DDT, and 4,4'-DDE in soils (Table 6-18). Based on the toxicity equivalency factors (TEFs) shown in Table 6-18, the dioxin TCDD equivalent concentration for the sample with the maximum concentrations of dioxins and furans is 2×10^{-6} mg/kg, less than the RPRG of 3.9×10^{-6} mg/kg. The detected 4,4'-DDT and 4,4'-DDE are orders of magnitude less than their RPRGs. No additional volatile organic compounds, semivolatile organic compounds, chlorinated herbicides, PCBs, PAHs, organophosphorus pesticides, or nitroaromatics/nitroamines were detected in the confirmation samples. Therefore, potential residual organic compounds in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs.

Metals concentrations in soil confirmation samples were below RPRGs for all detected metals except arsenic (Table 6-19). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs and background soil concentrations.

Groundwater sampling conducted at Site 25 after the removal action has shown no detectable concentrations of the contaminants that were previously detected. The removal action at Site 25 has eliminated the potential for migration of contaminants to groundwater.

Based on the results of confirmation samples, the Site 25 no longer poses a threat to human health above the range identified in the NCP and no further action is required. Contaminated soil and munitions residues have been removed and confirmation samples confirm that the carcinogenic and non-carcinogenic risk has been reduced to less than 10^{-6} and 1, respectively, for residential receptors.

SAMPLES LOCATED APPROXIMATELY 200' NORTH

Detonation Crater

Burn Pit

DIG SITE 1

DIG SITE 3

DIG SITE 2

Disposal Trenches

Major Burial Pit

Drag Deposition Area

APPROXIMATE SITE BOUNDARY

BASE BOUNDARY

S001
S003
S004
S005/S006

S002
S009
S007
S008
S010

S014 S011
S015
S012
S016
S013
S017

S018 S020

LEGEND

———— Site Boundary

⬤ Confirmation Sample

— N —

0   100   200 FEET
SCALE

United States Air Force

March ARB

Site 25
Munitions Residue
Burial Site
Removal Action Dig Sites

Figure
6-7

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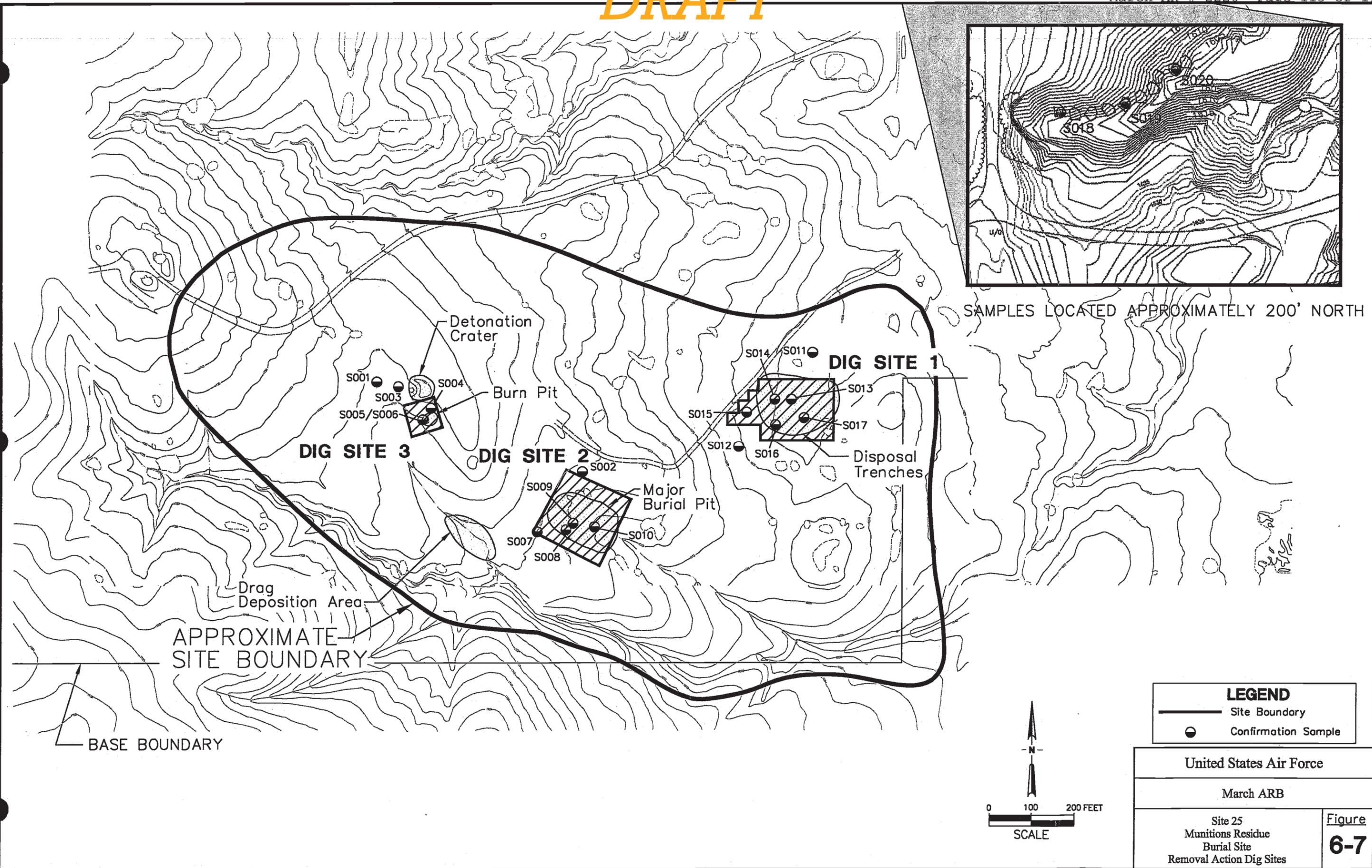
Table 6-18
Analytical Results for Dioxins and Furans Detected in Confirmation Soil Samples
Site 25 – Munition Residue Burial Area
(mg/kg)

Analyte	Sample No.																RPRGs[1]	TEF[2]
	S003	S004	S005	S006	S007	S008	S009	S010	S013	S014	S015	S016	S017	S018	S019	S020		
HpCDFs	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	8.8E-06	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07	<5E-07		
TCDFs (total)	<8E-06	1.2E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06		
OCDF	<8E-06	1.1E-05	<8E-06	<8E-06	<8E-06	<8E-06	1.5E-05	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06	<8E-06		0.001
HxCDDs (total)	<2.7E-06	6.1E-07	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06	<2.7E-06		
HpCDDs (total)	<9E-07	5.4E-05	<9E-07	<9E-07	<9E-07	<9E-07	3.6E-05	<9E-07	<9E-07	<9E-07	<9E-07	<9E-07	<9E-07	<9E-07	<9E-07	<9E-07		
1,2,3,4,6,7,8-HpCDD	<2.6E-06	3E-05	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	1.4E-05	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06	<2.6E-06		0.01
OCDD	2.9E-05	2.2E-04	<1.3E-06	<1.3E-06	<1.3E-06	2E-05	8.7E-05	<1.3E-06	<1.3E-06	6E-05	<1.3E-06	<1.3E-06	1.5E-05	4.1E-05	<1.3E-06	<1.3E-06		0.001
4,4'-DDE	1.7E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	1.7	
4,4'-DDT	3.5E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	<3E-03	1.7	

Notes:
< = Analyte not detected above the indicated reporting limit.
1 = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1x10^-6 and HQ of 1), EPA Region IX, 1999.
2 = TEF (Toxicity Equivalency Factor)
mg/kg = milligrams per kilogram

Table 6-19
Organic Chemicals Concentrations in Confirmation Samples
Site 25 Munition Residue Burial Area
(mg/kg)

Analyte	S003	S004	S005	S006	S007	S008	S009	S010	S013	S014	S015	S016	S017	S018	S019	S020	Maximum West March Background Concentrations (all depths)	RPRGs[1]
As	1.2	1.1	1	1.4	1.4	1.1	2.1	1.4	1.5	0.87	0.96	1.7	1.9	0.72	0.78	1.4	5.26	0.39
Ba	175	452	137	271	174	344	530	308	147	218	252	195	178	257	188	212	552	5400
Be	0.23	0.25	ND	0.23	0.22	0.22	0.37	0.34	0.32	ND	0.23	0.43	0.37	ND	0.14	0.14	10.95	150
Cd	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	37 (9.0*)
Cr	13.3	22.8	9	17	13	18.7	19.6	17.1	17.5	15.4	18	19.1	18.2	18.8	13.8	15.9	29.1	210
Co	8.6	10.5	6.2	12.2	8.4	12.9	11.3	9.1	10.3	12.7	13.9	11.9	11.1	11.9	9.2	11.4	16.1	4700
Pb	9.4	14.4	<5.0	15.6	<5.0	<5.0	<5.0	30.6	<5.0	<5.0	<5.0	<5.0	5.3	<5.0	<5.0	<5.0	17.2	400
Mo	<2.0	17.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	11.2	390
Ni	5.6	6.1	ND	6.9	5.9	7.9	7.6	5.8	7.1	4.2	5.8	8.7	8.4	7.5	4.5	5.1	10.4	1600 (150*)
V	30.7	36.1	20.5	41.3	33.7	51.7	48.8	36.7	40.7	42.3	51	47.1	44	38.9	38.5	46.8	75.4	550
Zn	44.3	64.6	18.2	59.2	33.6	116	40.4	135	38.2	38.9	48.6	43.3	41.8	35.8	32.3	37.8	413	23,000

Notes: 1 = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1×10^{-6} and HQ of 1), EPA Region IX, 1999.
        * = Cal-modified RPRG
        < = Concentration less than the listed method detection limit.
        mg/kg = milligrams per kilogram

Site 26 - Water Treatment Plant Sludge

The baseline risk assessment was performed for Site 26a and Site26b. The results of the baseline risk assessment for the contaminants detected in the lime sludge and groundwater prior to the removal action indicated carcinogenic and non-carcinogenic risks above the range identified in the NCP to future industrial workers, future construction workers and future on-site residents (Table 6-1, 6-2, and 6-3). To mitigate these risks and protect groundwater, a removal action was performed. The removal action at Site 26a excavated all visible lime sludge to bedrock and Site 26b (i.e., lime sludge over Site 20 wastes were removed) (IT Corporation 1996, 1997f and 1997i). Therefore, no residual affected soils or sludge remain at either Site 26a or Site 26b, eliminating the exposure pathway. Since all soil and sludge to bedrock was excavated, no confirmation samples were taken at Site 26a after the removal action. Site 26b was located on top of the landfilled material of Site 20. Therefore, confirmation sampling at Site 20 is indicative of post-removal action conditions at Site 26b. Groundwater samples taken since the RI have indicated that the previously detected arsenic is indicative of background concentrations (Tetra Tech, Inc. 1997b). The area was backfilled with clean soil and no further action is required.

Site 30 - Construction Rubble Burial Site

The results of the baseline risk assessment for the contaminants detected in the soil prior to the trash and debris removal indicated carcinogenic or non-carcinogenic risk within the acceptable range identified in the NCP to future industrial workers, future construction workers or future on-site residents (Table 6-1, 6-2, and 6-3). For soils, carcinogenic health risks were less than 10^{-6} and non-carcinogenic health risks were less than 1.

Risks from arsenic to future residents from usage of groundwater and swimming in surface water were within the manageable risk range. No non-carcinogenic risks were greater than 1 from groundwater usage at Site 30. Further analysis of arsenic in groundwater under a basewide groundwater monitoring program has shown the levels to be consistent with background levels in the area of March AFB. Therefore, the levels of arsenic detected in the groundwater and surface water, since the pond is fed by groundwater, are believed to be indicative of background and not a result of Air Force activities at the site. Additionally, groundwater and bedrock are shallow in this area and the potential for future use of groundwater as a potable source is extremely unlikely. No contaminants modeled to migrate to groundwater showed risks above the range identified in the NCP.

As previously discussed, Site 30 has been used for illegal dumping. The Air Force has removed accumulated trash and debris from the site.

Based on the results of investigations and analyses performed during the OU2 RI and basewide groundwater investigations, the site poses no threat to human health and no further action is required.

Site 35 - 15th Air Force Headquarters Leaking Underground Storage Tanks

The results of the baseline risk assessment for the contaminants detected in the soil and groundwater indicated no carcinogenic or non-carcinogenic risks above the range identified in the NCP to future industrial workers, future construction workers or future on-site residents (Table 6-1, 6-2, and 6-3). Carcinogenic health risks were less than 10^{-6} and non-carcinogenic health risks were less than 1 for all receptors. Human health risk levels from groundwater usage were within the range identified in the NCP.

However, long-chain petroleum hydrocarbons were detected in soils at Site 35c. These petroleum hydrocarbon contaminants could potentially degrade water quality at the site. To mitigate this concern, the Air Force installed and operated a bioventing system at Site 35c. Upon completion of bioventing, the soils were sampled and hydrocarbon concentrations had decreased to manageable levels allowing for regulatory closure of the petroleum hydrocarbon concern at Site 35c. No further action is required for Site 35.

Site 40 - Landfill No. 8

A quantitative baseline risk assessment was not conducted at Site 40 because the removal action was being performed at the time of the RI. The removal action was performed to mitigate concerns regarding drums exposed in a drainage by erosion. After completion of excavation activities for the removal action, confirmation samples were taken to confirm that any residual contamination would not pose a risk to human health. (Figures 6-8 and 6-9) (OHM Remediation Services Corporation 1995)

The sampling showed residual volatile organics, organochlorine pesticides and petroleum hydrocarbons in soils and sediments (Table 6-20). The concentrations of detected organics were less than their respective RPRGs, usually by several orders of magnitude. No other volatile organics, semivolatile organics, organochlorine pesticides, or PCBs were detected in the confirmation samples. Therefore, potential residual organic compounds in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs. Metals concentrations in soil and sediment samples were below RPRGs for all detected metals except arsenic (Table 6-21). Most metals concentrations are orders of magnitude below their respective RPRGs. Arsenic exceeds the RPRG, but is within the range of background for arsenic in soils for the OU2 West March Base as documented in the OU2 RI. Therefore, potential residual metals in soils after the removal action do not pose a risk above the range identified in the NCP to residential receptors based on RPRGs and background soil concentrations.

Metals concentrations in surface water samples were below RPRGs for all detected metals except arsenic and antimony (Table 6-22). Most metals concentrations are orders of magnitude below their respective RPRGs. However, arsenic exceeds the RPRG but is less than the MCL. Antimony exceeds both the RPRG and MCL. Additionally, the concentration of antimony is uncertain because the test methodology at the time of the RI caused overestimation of antimony concentrations due to interferences from several metals including aluminum and vanadium. It is very unlikely that pond water would be used as a potable source. Therefore, there are limited risks related to human receptors for surface water at Site 40.

No contamination has been detected in groundwater at Site 40.

Based on the results of confirmation samples, Site 40 no longer poses a risk above the range identified in the NCP to human health and no further action is required. Contaminated soil and debris have been removed and confirmation samples confirm that the risk has been reduced to less than 10^{-6} for residential receptors.

Figure 6-8

Site 40
Landfill No.8
Locations of Stream Bed &
Pond Confirmation Samples
Time-Critical Removal Action

United States Air Force

March ARB

LEGEND

- - - - Approximate Site Boundary

——— Fence

⊘ Sample Location

BASE BOUNDARY

APPROXIMATE SITE BOUNDARY

SCB25-01
SCB50-01
SCB75-01
SCB100-01
SCB125-01
SCB150-01
SCB175-01
UCSB-01/02
SPN-01
SPS-01

VAN BUREN BOULEVARD

SITE 40

SCALE : 1"=5000'

0   100   200 FEET
SCALE
CONTOUR INTERVAL=5 FEET

-N-

AFRPA OU2 ROD (former March AFB)   6-51

X:\GIS\A212-14\OU2 AFBCA ROD\SITE_40_SAMPLE.DWG 11/17/2000
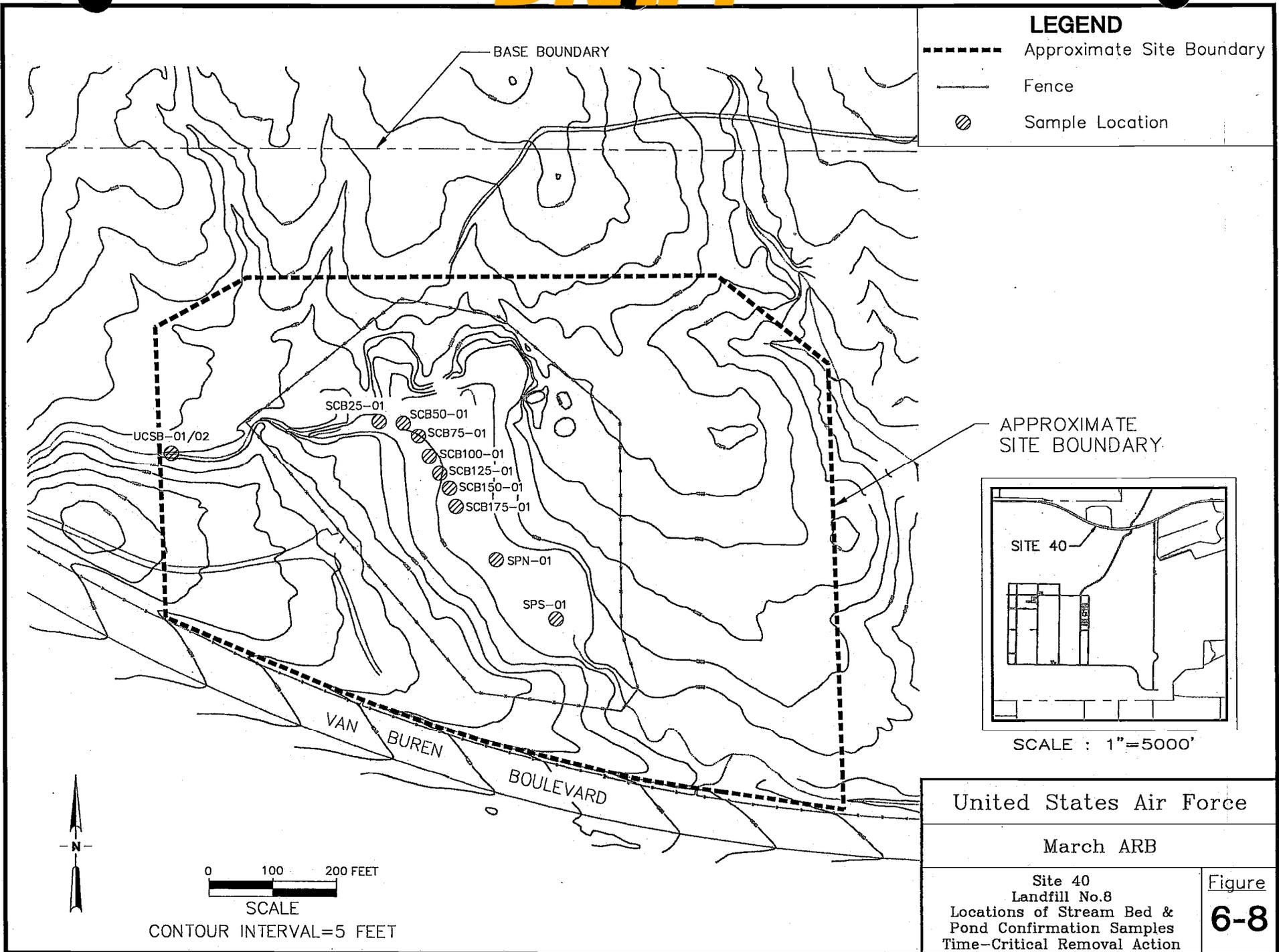
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LEGEND

—— Trench (Removal Action)

NOTES:
1. All noted debris and waste were removed from Site 40 during the Time—Critical Removal Action.

2. See Table 6—21 for description of sample locations in trenches.

BASE BOUNDARY

T8

SURFACE CONTINUOUS DEBRIS
MOSTLY CONCRETE PIECES

EXPOSED DRUM AREA,
SMALL DRUMS, MOSTLY
WITH SODIUM HYDROXIDE

T4

CHANNEL

CONSTRUCTION DEBRIS, MOSTLY
SMALL AND MEDIUM CONCRETE
PIECES AND ROOFING SHINGLES
EXCAVATED TO APPROX. 6 FEET.

SOLID ROCK, AVERAGE DEPTH
6" TO 10" BELOW SURFACE

T1

Pond

MISCELLANEOUS CONCRETE SCRAP
MIXED WITH METAL SCRAP AND TIMBER

CONSTRUCTION RUBBLE,
PREDOMINANTLY BRICKS, GENERAL
HOUSEHOLD WASTE 3 TO 5 FEET DEEP

CONSTRUCTION DEBRIS,
PRIMARILY CONCRETE BLOCKS

T2

CONCRETE DEBRIS, MEDIUM
PIECES 3 FEET DEEP

CONCRETE WEIR

T3

VAN BUREN

T5

T6

T7

BOULEVARD

APPROX. 30 55—GALLON DRUMS
FILLED WITH ASPHALT AND
ROOFING TAR TYPE MATERIAL (T9)

APPROXIMATE
SITE BOUNDARY

SITE 40

SCALE : 1"=5000'

—N—

0   100   200 FEET

SCALE
CONTOUR INTERVAL=5 FEET

United States Air Force

March ARB

Site 40
Landfill No.8
Trench Locations
Time-Critical Removal Action

Figure
6-9

X:\GIS\A212-14\OU2 AFBCA ROD\SITE_40_TRENCH.DWG 11/17/2000

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Table 6-20
Organic Compounds in Creek and Pond Confirmation Samples (Soil and Sediment)
Site 40 – Landfill No. 8
(mg/kg)

| Analyte | Method | Sample No. and Location | | | | | | | | | | | | | | | | RPRGs |
		CBS-A-01 Creek NE bank	CBS-B-01 Creek SE bank	CBS-C-01 Creek NW bank	CBS-D-01 Creek SW bank	CBS-E-01 Creek SW bank	USCB-01 Upstream	USCB-02 Upstream	SCB25-01 Pond	SCB50-01 Pond	SCB75-01 Pond	SCB100-01 Pond	SCB125-01 Pond	SCB150-01 Pond	SCB175-01 Pond	SPN-01 Pond	SPS-01 Pond	
Benzene	8240	<0.01	0.00215	0.00212	0.00155	<0.011	0.013	<0.012	<0.012	NA	NA	NA	NA	NA	NA	<0.019		0.67
Toluene	8240	<0.01	0.00561	<0.011	<0.011	<0.011	0.013	<0.012	<0.012	NA	NA	NA	NA	NA	NA	<0.019		520
4,4'-DDT	8080	0.00108	0.0086	<0.0037	<0.0036	<0.0036	<0.0041	<0.0039	0.079	NA	<0.0039	NA	<0.0043	NA	<0.0048	0.0046	<0.007	1.7
4,4'-DDE	8080	<0.0033	0.00189	<0.0037	<0.0036	<0.0036	<0.0041	<0.0039	<0.0041	NA	<0.0039	NA	<0.0043	NA	<0.0048	0.0031	<0.007	1.7
MEK	8080	<0.01	<0.01	<0.011	<0.011	<0.011	<0.013	<0.012	<0.012	NA	NA	NA	NA	NA	NA	0.026		7,300
TRPH	8015M	13.4	8.3	11	7.2	10.8	71.3	101	46.6	21.5	25	68.7	57.8	25.5	66	33.3	11.2	

Notes: 1 = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1×10^{-6} and HQ of 1), EPA Region IX, 1999.
< = Concentration less than the listed method detection limit.
NA = Not Analyzed
mg/kg = milligrams per kilogram

Table 6-21
Metals Concentrations in Confirmation Samples (Soil and Sediment)
Site 40 – Landfill No. 8
(mg/kg)

| Analyte | Trench Soil Sample No. and Location | | | | | | |
	T1-S-1-01 Trench 1, Pile A	T1-S-1-01 Trench 1, Pile B	T2-S-1-01 Trench 2, North End	T2-S-2-01 Trench 2 South End	T2-S-3-01 Trench 2 Middle	T3-S-1-01 Trench 3 North End	T3-S-2-01 Trench 3 South End
Ag	<0.2	<0.23	<0.21	<0.2	<0.2	<0.21	<0.21
As	1.5	1	2.1	1.4	1.3	1.3	1
Ba	270	442	185	194	400	187	186
Be	0.73	<0.23	0.74	0.58	0.34	0.82	0.68
Cd	1.7	<0.68	<0.62	<0.61	<0.61	3.8	1.6
Cr	17.1	20.9	18.6	16.6	16.3	17.1	16.6
Co	14.9	20.6	14.8	14	17.2	14.3	13.8
Cu	16	18.2	15.4	13.5	17.1	17.3	17.7
Hg	0.1	0.11	0.1	0.1	0.1	0.15	0.16
Ni	5.3	6.7	11.4	7.6	6.8	11.4	15.5
Pb	18.4	2.5	7.4	4.7	3.4	28.3	20.9
Sb	6.3	5	<4.1	6.9	9.1	4.7	6.3
Se	0.61	0.61	0.49	0.43	0.45	0.66	0.57
Tl	0.36	0.3	0.33	0.31	0.51	0.21	0.36
V	52.9	76.4	52.1	52.2	61.2	55.8	58.5
Zn	59.6	67.2	54.8	50	55.8	69.4	71.6

AFRPA OU2 ROD (former March AFB)

Table 6-21 (Cont. page 2)

	Trench Soil Sample No. and Location (Cont.)						
Analyte	T4-S-1-01 Trench 4	T5-S-1-01 Trench 5	T6-S-1-01 Trench 6	T6-S-1-01 Trench 6	T7-S-1-01 Trench 7	T8-S-1-01 Trench 8 North End	T8-S-2-01 Trench 8 North End
Ag	<0.2	0.29	<0.21	<0.2	<0.2	<0.21	<0.21
As	0.71	1.4	3	0.99	1.1	1.6	1.1
Ba	193	284	452	323	298	495	421
Be	0.34	0.49	0.34	0.33	0.33	0.34	0.34
Cd	1.6	<0.61	<0.62	<0.6	<0.6	<0.62	<0.62
Cr	12.5	18.8	16.7	17.6	15.8	15.9	17.4
Co	11.3	17.6	13.8	16.7	15	17.5	15.9
Cu	13.9	34.2	39.5	26.5	16.4	12.7	12.3
Hg	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Ni	6	7.5	10.7	7.5	6	6.9	4.6
Pb	26.6	158	310	67.2	8	5.3	3.4
Sb	4.5	6.7	5.3	8.4	5.6	4.4	6.1
Se	0.35	0.49	0.68	0.42	0.48	<0.14	<0.14
Tl	0.2	0.26	0.19	0.34	0.18	0.23	0.16
V	38.9	58.7	52	59.2	49.9	62.4	64
Zn	64.5	124	164	84.5	53.4	53	54.4

	Trench Soil Sample No. and Location (Cont.)					Average Concentrations (Trench Soil Samples)
Analyte	T8-S-3-01 Trench 8 South End	ST-3-01 Trench 9 SE/NE Floor	ST-2-01 Trench 9 SW/NW Floor	ST-5-01 Trench 9 Floor Center	ST-5-02 Trench 9 Floor Center	
Ag	<0.21	<0.63	<0.63	<0.63	<0.64	
As	1.2	1.8	1.5	1.4	1.2	1.4
Ba	432	286	386	263	204	311
Be	0.34	0.53	0.53	0.54	0.54	0.49
Cd	<0.62	<0.84	<0.84	<0.85	<0.85	
Cr	16.3	20.3	18	21.2	17.9	17.5
Co	15.3	18.6	15.8	19	15.7	15.9
Cu	11	16.4	15.9	15.5	14.6	18.1
Hg	<0.1	0.16	0.11	0.05	0.11	0.07
Ni	6.9	8.1	<6.3	8.1	9.3	8.1
Pb	3.7	10.4	9.2	7.3	6.1	36.9
Sb	4.8	6.3	9.4	4.8	5.2	6.1
Se	<0.15	<0.15	<0.15	<0.15	<0.15	0.33
Tl	<0.15	0.23	0.25	0.25	0.32	0.28
V	58.3	61.5	53.2	64.9	50.3	57
Zn	51.1	95	109	96.8	74.3	77.7

Table 6-21 (Cont. page 3)

Analyte	Creek Bed Soil Sample No. and Location							Average Concentrations (Creek Bed Soil Samples)
	CBS-A-01	CBS-B-01	CBS-C-01	CBS-D-01	CBS-E-01	USCB-01	USCB-02	
	Creek NE bank	Creek SE bank	Creek NW bank	Creek SW bank	Creek SW bank	Upstream	Upstream	
Ag	<0.2	<0.2	<0.22	<0.22	<0.22	<0.75	<0.72	
As	1.3	0.92	0.93	1.5	1.3	0.38	0.53	1
Ba	291	467	256	486	312	238	205	322
Be	<0.20	<0.20	<0.22	<0.22	<0.22	0.36	0.34	
Cd	<0.6	<0.6	<0.66	<0.66	<0.65	<1	<0.96	0.18
Cr	18.7	21.5	15.2	21.2	15.9	15.6	13.6	17.4
Co	16	17.3	14.1	25	13.8	14.3	12.7	16.2
Cu	23.6	20.9	12.2	22.1	16.3	13.9	11.4	17.2
Hg	0.1	0.2	0.22	0.28	0.27	<0.03	<0.03	0.2
Ni	9	10.6	5.6	7.8	6.6	<7.5	<7.2	5.7
Pb	26.1	18.7	8.9	10.2	3.6	4.8	3.5	10.8
Sb	6.4	6.2	<4.4	11.3	8.8	8.1	6.4	6.7
Se	0.22	0.22	0.18	0.29	<0.15	<0.18	<0.22	0.1
Tl	0.38	0.56	0.24	0.15	0.63	0.28	0.31	0.4
V	54.8	65	50.5	77.6	56.3	49.6	43.9	56.8
Zn	85.8	68.8	48.6	70.7	53.6	55.8	51.1	62.1

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Table 6-21 (Cont. page 4)

Analyte	SCB25-01	SCB50-01	SCB75-01	SCB100-01	SCB125-01	SCB150-01	SCB175-01	SPN-01	SPS-01	Average Concentrations (Sediment Samples)	Maximum Soil Background Levels (all depth category)	RPRGs[1]
Ag	<0.74	<0.73	<0.71	<0.7	<0.79	<0.72	<0.86	<1.1	<1.3		ND	390
As	0.4	6.24	0.57	0.35	0.34	0.29	0.55	2.3	1.7	1.42	5.26	0.39
Ba	187	205	135	163	204	148	231	336	416	225	552	5400
Be	0.35	<0.24	<0.24	<0.23	0.3	<0.24	<0.29	0.54	0.6	0.22	10.95	150
Cd	<0.99	<0.97	<0.94	<0.94	<1.1	<0.96	<1.2	<1.5	<1.7		ND	37 (9.0*)
Cr	10.6	9.7	7.7	7.7	11.5	7.2	9.6	29	25.8	13.2	29.1	210
Co	11.6	9.3	7.6	7.7	12.5	7.7	10.1	19.1	21.9	11.9	16.1	4700
Cu	7.9	11.3	10.6	8.9	11.2	5.4	10.1	99.1	43	23.1	17	2900
Hg	0.06	0.06	0.12	0.12	0.13	0.12	0.14	0.09	0.21	0.12	0.077	23
Ni	<7.4	<7.3	<7.1	<7.0	<7.9	<7.2	<8.6	68.6	<12.6		10.4	1600(150*)
Pb	10.1	11.7	9.7	36.8	27.3	8.3	14	324	43.9	54	17.2	400
Sb	8.1	6.2	5.6	5.8	6.5	<4.6	<5.5	8.4	8.6	5.5	ND	31
Se	0.27	<0.17	<0.17	<0.16	<0.18	<0.17	<0.20	0.68	0.51	0.16	ND	390
Tl	0.3	<0.22	<0.21	0.21	<0.24	<0.22	0.4	<0.34	0.59	0.17	ND	6.3
V	40	34.3	25.7	28.8	45.1	27.6	36.5	61	83.8	42.5	75.4	550
Zn	82.8	81.8	68.2	59.6	76.4	39.6	105	390	189	121.4	413	23,000

Notes:
< = Analyte not detected, followed by method detection limit
NL = RPRG not listed
MEK = Methyl ethyl ketone
TRPH = Total Recoverable Petroleum Hydrocarbons
1 = RPRG (Preliminary Remediation Goal), Residential Soil (Set at 1x10^{-6} and HQ of 1), EPA Region IX, 1999
* = Cal-Modified RPRG
mg/kg = milligrams per kilogram

Table 6-22
Metals Concentrations in Pond Surface Water Confirmation Samples
Site 40 - Landfill No. 8
(μg/L)

| Analyte | Sample No. | | | Ambient Water Quality Criteria Aquatic Life (Chronic or 4-Day Average) | RPRGs (Tap Water)/MCL | Maximum West March Background-Groundwater |
	AW-YA-01 North Pond Surface Water	AW-YA-02* North Pond Surface Water	Spring 1994			
Ag	2.8 J	24.1 J	ND	0.12	180/100	ND
As	1.6 J	1.2 J	ND	190	0.045/50	ND
Ba	192 J	193 J	318	NL	2,600/1,000	516
Cu	12.3 J	11.5 J	ND	28**	1,400/1,000	ND
Pb	0.65 J	0.63 J	ND	7.8**	NL/50	ND
Sb	46.8 J	50.1 J	ND	30	15/6	35.5
Tl	0.99 J	<0.7 J	ND	40	2.9/2	183
V	5.1 J	5.8 J	57	NL	260	68.4
Zn	32.5 J	29 J	58	260	11,000	58.8

Notes: Only those metals which were detected in at least one sample are shown
<   =   Analyte not detected, followed by method detection limit
*   =   Duplicate
J   =   Result is between the PQL and MDL. Analyte was positively identified, but the concentration is uncertain.
NL   =   RPRG not listed
ND   =   Not detected
**   =   Based on hardness of 290 mg/L CaCO3
MCL =   Maximum Contaminant Level (not listed where none established).
1   =   RPRG (Preliminary Remediation Goal), Tap Water, EPA Region IX, 1999.

Site 42 - Building 3404 Transformers

A quantitative risk assessment was not performed for Site 42 because of an impending removal action at the time of the RI. However, based on comparison to RPRGs, carcinogenic risks from exposure to PCB-contaminated soil were above the manageable risk range for residents and 2×10^{-5} for industrial workers, indicating a need to mitigate the risk. A removal action was conducted and contaminated soils removed and disposed of off-Base. Confirmation samples showed minor residual PCB contamination in soils at Site 42 (Table 6-23 and Figure 6-10). Residential risk to residual PCBs in soil is within the manageable risk range for carcinogenic risks and less than 1 for non-carcinogenic risks. The carcinogenic risk to industrial receptors is less than 10^{-6} based on a RPRG of 0.74 mg/kg (updated 2002 RPRG). The site is currently owned by the County of Riverside.

There are no detected contaminants in groundwater at Site 42 and the removal action has eliminated the potential for contaminants to migrate to groundwater. Therefore, the site has been cleaned to within the manageable risk range as identified by the NCP. No further action is required for Site 42.

Transformer oils may be present in the concrete floor of Building 3404. The Air Force attempted to remove the PCBs from the concrete. Minimal levels of PCBs were left and have been encapsulated to prevent exposure. The concrete is not addressed in this AFRPA OU2 ROD. The County of Riverside has entered into a land use covenant with DTSC to ensure that the use of the building remains restricted to industrial activities.

6.1.4   Summary of Sites with Residual Contamination

As discussed above, four OU2 AFRPA sites have residual contamination above the risk range identified in the NCP. A summary of the site risks is provided in Table 6-24. Table 6-24 includes the location of each site, the residual risk if any, and the identification of the contaminated media. The Administrative Record contains documents with additional details regarding the site, locations, investigations, and, as applicable, the removal actions at the OU2 AFRPA sites. Included in the documents are figures and descriptions of all activities including the confirmation sampling locations and results. The selected controls and the description of the protectiveness to human health of these controls are discussed in Sections 7 and 9.

Summary of Sites with Residual Risks

Site 6 – Landfill No. 4

Approximately 600,000 cubic yards of non-hazardous waste is wholly contained within the engineered waste cells. The engineered waste cells are located on the footprint of the former Landfill No. 4 and occupy 12 acres (see Figure 5-1). Currently, the site is fenced and maintained. Exposures to the contained materials have not occurred. However, exposure to these contained wastes could occur if the waste cells are damaged or not properly maintained.

Site 12 – Civil Engineer Yard

The Civil Engineering yard occupies approximately 20 acres. A non-CERCLA petroleum hydrocarbon action was completed in the former wash rack area. Although some amount of petroleum and metals were left in place, this cleanup action was closed without restrictions. The 1-1 DCE vapor in shallow soil was considered to pose a potential threat in the past. However, as previously stated, 1-1 DCE is no longer considered a suspected human carcinogen, and 1-1 DCE vapors at Site 12 are no longer a threat to human health or the environment. The only remaining contaminated media at Site 12 is a small area of groundwater contamination existing in the northwest section of the site. A precise volume and area of contaminated soil and groundwater is not known. However, the area of contamination does not extend beyond the site boundaries. There are no current exposures because groundwater is not extracted. If groundwater extraction wells were drilled, water users could be exposed to TCE and PCE by drinking and other uses of the water.

Table 6-23
Analytical Results for PCBs by Isomer in Soil Samples
Site 42 – Building 3404 Confirmation Samples
(mg/kg)

Sample No. Test Method	MARCH-42-TS S-SL01 8082	MARCH-42-TS S-SL02 8082	MARCH-42-TS S-SL2-02 8082	MARCH-42-TS S-SL03 8082	MARCH-42-TS S-SL04 8082	MARCH-42-TS S-SL05 8082	MARCH-42-TS S-SL06 8082	MARCH-42-TS S-SL08 8082
Aroclor 1016	<0.0034	<0.0034	<0.0034	<0.0033	<0.0034		<0.0033	<0.02
Aroclor 1221	<0.0034	<0.0034	<0.0034	<0.0033	<0.0034		<0.0033	<0.02
Aroclor 1232	<0.0034	<0.0034	<0.0034	<0.0033	<0.0034		<0.0033	<0.02
Aroclor 1242	<0.0035	<0.0034	<0.0034	<0.0033	<0.0034		<0.0033	<0.02
Aroclor 1248	<0.0034	<0.0034	<0.0034	<0.0033	<0.0033		<0.0033	<0.02
Aroclor 1254	<0.0082	<0.0082	<0.0082	<0.008	<0.008	<0.01	<0.008	<0.04
Aroclor 1260	0.21	0.23	0.2	0.03	0.036	0.2	0.0065	0.096

Sample No. Test Method	MARCH-42-TS S-SL11 8082	MARCH-42-TS S-SL12 8082	MARCH-42-TS S-SL2-12 8082	MARCH-42-TS S-SL14 8082	MARCH-42-TS S-SL15 8082	MARCH-42-TS S-SL18 8082	MARCH-42-TS S-SL19 8082	MARCH-42-TS S-SL20 8082
Aroclor 1016				<0.0035	<0.0038		<0.0035	<0.0037
Aroclor 1221				<0.0035	<0.0038		<0.0035	<0.0037
Aroclor 1232				<0.0035	<0.0038		<0.0035	<0.0037
Aroclor 1242				<0.0035	<0.0033	<0.02	<0.0035	<0.0037
Aroclor 1248				<0.0035	<0.0038		<0.0035	<0.0037
Aroclor 1254	<0.01	<0.01	<0.01	<0.0084	<0.0091	<0.01	<0.0084	<0.0088
Aroclor 1260	0.64	0.031	0.041	0.061	0.056	0.017	0.008	0.23

Sample No. Test Method	MARCH-42-TS S-SL21 8082	MARCH-42-TS S-SL22 8082	MARCH-42-TS S-SL23 8082	MARCH-42-TS S-SL24 8082	MARCH-42-TS S-SL2-24 8082	MARCH-42-TS S-SL28 8082	MARCH-42-TS S-SL29 8082	MARCH-42-TS S-SL30 8082
Aroclor 1016	<0.0035	<0.0036	<0.0036			<0.0034		<0.0036
Aroclor 1221	<0.0035	<0.0036	<0.0036			<0.0034		<0.0036
Aroclor 1232	<0.0035	<0.0036	<0.0036			<0.0034		<0.0036
Aroclor 1242	<0.0035	<0.0036	<0.0036	<0.07		<0.0038		<0.0036
Aroclor 1248	<0.0035	<0.0036	<0.0036			<0.0034		<0.0036
Aroclor 1254	<0.0084	<0.0086	<0.0087	<0.01	<0.01	<0.0082	<0.01	<0.0085
Aroclor 1260	0.015	<0.0036	<0.0036	0.026	0.031	0.015	0.025	<0.0036

Table 6-23 (Cont. page 2)

Sample No. Test Method	MARCH-42-TS S-SL31 8082	MARCH-42-TS S-SL35 8082	MARCH-42-TS S-SL36 8082	MARCH-42-TS S-SL39 8082	MARCH-42-TS S-SL40 8082	MARCH-42-TS S-SL41 8082	RPRG(1)
Aroclor 1016	0.031	<0.0034	0.031	<0.0034	<0.0035	<0.0034	3.9
Aroclor 1221	<0.0034	<0.0034	<0.0034	<0.0034	<0.0035	<0.0034	0.22
Aroclor 1232	<0.0034	<0.0034	<0.0034	<0.0034	<0.0035	<0.0034	0.22
Aroclor 1242	<0.0034	<0.0034	<0.0034	<0.0034	<0.0035	<0.0034	0.22
Aroclor 1248	<0.0034	<0.0034	<0.0034	<0.0034	<0.0035	<0.0034	0.22
Aroclor 1254	<0.008	<0.008	<0..008	<0.0081	<0.0083	<0.0082	0.22
Aroclor 1260	0.0052	0.18	0.063	0.066	0.12	0.006	0.22

Notes: < = Analyte not detected, followed by method detection limit
(1) = RPRG (Preliminary Remediation Goal) Residential Soil, EPA Region IX, 1999

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SL39

SL38

SL37

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SL33

SL32

SL30

SL31

BLDG 3414

SL29

CONCRETE PAD

SL27

SL28

SL26

SL25

SL23

SL24

SL22

SL21

SL20

SL19

BLDG 3404

SL17

SL18

Davis Avenue

SL15

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SL16

SL13

SL11

SL12

SL41

SL40

SL08

SL06

SL05

SL01

SL02

SL03

SL04

BLDG 3403

N

LEGEND

⊖ CONFIRMATION PCB SAMPLE LOCATION

PREVIOUS PCB SAMPLE AREA (EARTH TECH, 1993)

APPROXIMATE EXTENT OF ASPHALT

0   25 FEET

SCALE

United States Air Force

March ARB

Site 42
Transformer Facility
PCB Confirmation
Sample Locations

Figure

6-10

x:\GIS\VA212-14\OU2 AFBCA ROD\SITE_42.DWG 11/17/2000

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Table 6-24
Summary of Sites with Residual Risk

Site No.	Site Location	Action Based On Residual Risk	Contaminated Media Identification
3	West March	None	Not Applicable
6	West March	Yes	Regulatory Approved Engineered Waste Cells
12	Main Base	Yes	Groundwater, and Surface and Subsurface Soils
17	Main Base	Yes	Subsurface Soil
19	West March	Yes	Surface and Near Surface Soils
20	Main Base	None	Not Applicable
22	West March	None	Not Applicable
23	Off-Base	None	Not Applicable
24	West March	None	Not Applicable
25	West March	None	Not Applicable
26	West March	None	Not Applicable
30	West March	None	Not Applicable
35	West March	None	Not Applicable
40	West March	None	Not Applicable
42	West March	None	Not Applicable

Notes: All sites are located on Figure D-1.

Site 17 – Swimming Pool Fill

Approximately 1,000 cubic yards of PCB contaminated soil remains in the subsurface over an area of approximately 5,000 square feet beneath the former swimming pool structure (see Figure 5-3). There are no current exposures because the contaminated soil is covered with over 8 feet of uncontaminated soil. However, exposures could occur if excavation over 8 feet in depth came in contact with the contaminated soils or brought these soils to the surface where additional exposures could occur by contact or inhalation of dust.

Site 19 West March Sludge Drying Beds

Approximately 7,000 cubic yards of surface and near-surface soil contamination (PAHs, PCBs, hexavalent chromium, and thallium) is estimated to exist over the approximate 7.5 acre site in the area of the sludge drying beds (see Figure 5-4). There is no consistent pattern to the contamination throughout the site. However, sampling showed the contamination was concentrated near the sludge beds. Exposures to the contaminated soil could occur to current or future workers at the site if they come in contact with the contaminated soils or inhale dust.

6.2   ECOLOGICAL RISK ASSESSMENT

An ecological risk assessment was conducted, as appropriate, to evaluate the potential for site contamination to adversely affect the local ecological receptors. Ecological risk was evaluated for West March sites only. Main Base areas are highly developed (Sites 12 and 17), primarily comprised of landscaping, buildings and/or pavement. These areas offer habitat to very few wildlife species compared to the open areas of rural West March. Routine Main Base activities are also likely to disturb the majority of wildlife. Similarly, ecological risks were not evaluated for West March Sites 35 and 42, which are in developed areas. Like the Main Base, potential habitats at these sites are restricted by buildings, pavement, and human activities. No ecological risk assessments were performed for sites where no contamination was found (Sites 22 and 23). A quantitative

ecological risk assessment was conducted for three West March sites: Site 19, Site 25, and Site 30. No quantitative ecological risk assessments were performed for the following sites where removal actions were completed: Sites 3, 6, 20, 24, 26, and 40.

Site-specific ecological risk assessments at OU2 included problem formulation and preliminary scoping assessment of the potential for adverse ecological impacts.

If the preliminary scoping assessment indicated that the potential for adverse ecological impacts exists, either a quantitative ecological risk assessment or a risk management action was recommended. If a removal was conducted at a site, the Air Force, EPA, and DTSC agreed that a quantitative ecological risk assessment for pre-removal conditions would be of limited value (given that the contaminated material no longer exists) and would not be included, except for Site 25. However, if no removal action had been conducted, a quantitative predictive ecological risk assessment was performed. The quantitative predictive ecological risk assessment built upon information developed in problem formulation and consisted of exposure assessment, effects assessment, and risk characterization.

Prior to the quantitative risk assessment, problem formulation was used to identify the major factors to be considered and established the focus of the ecological risk assessment. Problem formulation set the scope of the risk assessment and ensured that exposure scenarios most likely to contribute to ecological risk were evaluated.

Findings and conclusions for quantitative and qualitative ecological risk assessments are summarized below on a site-specific basis.

6.2.1 Qualitative Risk Assessments

The qualitative risk assessments included a preliminary scoping analysis and evaluation of potential impacts. This preliminary scoping assessment evaluated whether there are any habitats or biological receptors of concern present at the site; potentially harmful chemicals released from or present at the site; and finally, any potentially complete exposure pathways through which biological receptors may be exposed to chemicals. A potential for adverse ecological impacts existed prior to removal actions at sites including Site 3, 6, 20, 24, 25, 26, and 40 because receptors of regulatory and ecological concern had been identified.

The qualitative ecological risk assessment performed for the sites where removal actions have occurred concluded that, in general, the removal actions had removed primary contaminants of ecological concern.

Data collected from the sediments in the pond at Site 40 after the removal action, indicate that the mercury, at the detected concentrations, may present a threat to ecological receptors. The Air Force has reviewed the matter with the regulators and concluded that the available information does not indicate that a response action is required at this time. Although there is some reason for concern regarding the mercury levels in the sediment, a mitigation action such as removing sediments or lining the pond with insert material such as rock such that ecological receptors will not be exposed to the sediments, would adversely impact a substantial portion of the wetlands ecosystem. The Air Force has determined that actions taken to prevent ecological exposures would be more detrimental to the wetland habitat at Site 40 than leaving the sediment in place. In light of the existing uncertainty, however, the Air Force will monitor the condition of the pond sediments. Within 2 years, the Air Force will conduct a further ecological evaluation to determine if the above conclusion remains valid. This evaluation will include a screening ecological risk assessment, i.e., the first two steps described in EPA's 1997 Ecological Risk Assessment Guidance.

6.2.2 Quantitative Ecological Risk Assessments

Quantitative ecological risk assessments were prepared for Sites 19, 25, and 30 by the methods previously described. The quantitative ecological risk assessment performed for Site 25 showed negligible potential for adverse ecological impact to SKR using conservative assumptions. None of the other representative species for which sufficient applicable toxicity data are available had HI values above 1. The majority of HIs are two to five orders of magnitude less than 1. The results of the conservative, quantitative and predictive risk assessment, therefore, point to a negligible potential for adverse ecological impacts. In addition, all landfilled materials and some soils were removed after the risk assessment was completed and the site has been backfilled, reducing potential risk from past site activities beyond that reported in the risk assessment. Because of the removal action and the low HIs calculated for Site 25, a further discussion of the quantitative risk assessment for Site 25 will not be presented.

Site 19 - West March Sludge Drying Beds

The purpose of the ecological risk assessment was to evaluate the potential for adverse ecological effects that may occur as a result of past activities at Site 19, the Sludge Drying Beds. This site supports small areas of highly disturbed, sparse non-native grassland vegetation with no sensitive habitats. I-215 lies to the east of Site 19 and private cultivated land lies to the south. Areas immediately surrounding Site 19 are either developed or dominated by non-native grassland vegetation. Although the planned use of Site 19 is industrial (i.e., wastewater treatment), the ecological risk assessment was performed assuming that this site will support non-native grassland species.

The potential biological receptors of concern and the assessment endpoint were selected to evaluate to reflect concerns at respective levels of biological organization, including individual level impacts for receptors of regulatory concern and population level impacts for receptors of ecological concern.

The selected receptors of concern are listed in Table 6-25. Based on historical observations, recent surveys, and interviews with Base and regulatory biologists, Site 19 supports no receptors of commercial or recreational concern. Therefore, no assessment endpoints for receptors of commercial or recreational concern were established.

The preliminary scoping assessment evaluated whether there were any habitats or biological receptors of concern present at the site and potentially harmful chemicals released from or present at the site. Also evaluated was the potentially complete exposure pathways through which biological receptors may be exposed to chemicals.

A potential for adverse ecological impacts exists at Site 19 as receptors of regulatory and ecological concern have been identified. Also, chemicals of potential ecological concern (COPECs) were identified in biologically accessible soils and confined air spaces of burrows with the potential for an adverse ecological impact. Additionally, the potentially complete exposure pathways linking secondary sources of COPECs to biological receptors of concern were identified for this site. The primary ecological concerns at varying exposure pathways at Site 19 included the potential for a decline in populations of grassland plants due to the uptake of COPECs in soils or a decline in populations of invertebrate decomposers due to the uptake of COPECs in soils. Another primary ecological concern at Site 19 was the potential for decline in populations of herbivorous birds and mammals due to the ingestion of COPECs in soils and plant tissues. Dermal contact with COPECs in soils and the potential for inhalation of volatile COPECs emitted from soils into confined air spaces of burrows were also exposure pathways of ecological concern at this site for herbivorous birds and mammals. Decline in populations of predatory birds and mammals due to ingestion of COPECs in soils and prey tissues and dermal contact by burrowing species with COPECs in soils are also exposure pathways that required assessment at Site 19. Finally, decline in populations of burrowing species of predatory birds and

mammals due to inhalation of volatile COPECs emitted from soils into confined air spaces of burrows was a exposure pathway of ecological concern at Site 19.

The ecological risk assessment for Site 19 also included an analysis of health impacts to individuals for species of regulatory concern due to ingestion of COPECs in soils and prey tissues, dermal contact by burrowing species with COPECs in soils, and/or inhalation by burrowing species of volatile COPECs emitted from soils into confined air spaces of burrows.

The exposure evaluations provided conservative estimates of environmental COPEC exposures to representative species. Concentrations of COPECs were modeled for inhalation exposures. Chemical-specific bioconcentration and/or biotransfer factors were used to calculate exposures to the selected representative receptors of ecological concern.

Toxicity data for each COPEC was obtained from a review of available literature and toxicity databases. Whenever available, chronic No Observable Adverse Effect Level (NOAEL) data for mortality or reproductive effects were used to develop the reference toxicity value (RTV). Chronic NOAEL data for physiological or pathological effects were also used, as these responses are protective of mortality and reproduction. The uncertainty factors used to extrapolate from the observed endpoint to an estimated mean chronic NOAEL are detailed in Table 6-26.

Table 6-25
Assessment Endpoints for Site 19

Receptor of Concern	Status	Assessment Endpoint
Receptors of Regulatory Concern		
Red diamond rattlesnake	CSC	• Potential adverse health effects to individuals, including but not limited to mortality, reproductive impairment, and developmental abnormalities.
California horned lark	CSC	
Loggerhead shrike	FC2	
Cooper's hawk	CSC	
Ferruginous hawk	CSC, FC2	
Northern harrier	CSC	
Golden eagle	CSC	
Burrowing owl	CSC	
Stephens' kangaroo rat	FE/SE	
Los Angeles little pocket mouse	CSC, FC2	
San Diego black-tailed jackrabbit	CSC, FC2	
Receptors of Ecological Concern		
Non-native grassland plants		• Potentially significant reduction in population abundance or reproduction for member populations of receptors of ecological concern.
Invertebrate decomposers		
Herbivorous birds		
Herbivorous mammals		
Predatory birds		• Potentially significant reduction in abundance of plant and animal populations that are required habitat or important food items for identified receptors of regulatory concern.
Predatory mammals		

Notes: CSC = California Species of Special Concern
         FC2 = Federal Candidate 2, Threatened and Endangered Species
         FE/SE = Federal Endangered Species and State Endangered Species

Table 6-26
Uncertainty Factors Used to Extrapolate from Observed Endpoint
to Estimated Mean Chronic NOAEL

NOAEL	Uncertainty Factors
Acute (50% Lethal Dose) LD_{50} to chronic NOAEL	100
Acute Lowest observable adverse effects level (LOAEL) to chronic NOAEL	50
Acute to chronic	10
LOAEL to NOAEL	10

These endpoint-to-chronic NOAEL uncertainty factors were developed based on a review of a toxicity database and were always used to lower available toxicity values to a chronic NOAEL-equivalent (i.e., a more sensitive toxicity value).

Based on these conservative assumptions and the calculated exposure point concentrations, the quantitative risk assessment for Site 19 identified risk to some of the selected ecological receptors from exposure to contaminated soils (Table 6-27).

For each representative species, three HIs were calculated for each COPEC as defined as follows. For the maximally exposed individual who is the most sensitive to COPEC exposures, and to estimate the upper bound of risks, maximum HI is calculated as follows:

$$\text{Maximum HI} = \Sigma(\text{Maximum Exposure} / \text{Minimum RTV}) \qquad (1)$$

When the risk for the typically exposed individual who has an average sensitivity to COPEC exposures and to estimate the average risk, mean HI is determined as follows:

$$\text{Mean HI} = \Sigma(\text{Mean Exposure} / \text{Mean RTV}) \qquad (2)$$

Finally, to estimate risks for the minimally exposed individual who is the least sensitive to COPEC exposures and estimate the lower bound of risks, minimum HI is calculated as follows:

$$\text{Minimum HI} = \Sigma(\text{Minimum Exposure} / \text{Maximum RTV}) \qquad (3)$$

These endpoint-to-chronic NOAEL uncertainty factors were developed based on a review of a toxicity database and were always used to lower available toxicity values to a chronic NOAEL-equivalent (i.e., a more sensitive toxicity value).

Based on these conservative assumptions and the calculated exposure point concentrations, the quantitative risk assessment for Site 19 identified risk to some of the selected ecological receptors from exposure to contaminated soils (Table 6-27).

For each representative species, three HIs were calculated for each COPEC as defined as follows. For the maximally exposed individual who is the most sensitive to COPEC exposures, and to estimate the upper bound of risks, maximum HI is calculated as follows:

$$\text{Maximum HI} = \Sigma(\text{Maximum Exposure} / \text{Minimum RTV}) \qquad (1)$$

When the risk for the typically exposed individual who has an average sensitivity to COPEC exposures and to estimate the average risk, mean HI is determined as follows:

$$\text{Mean HI} = \Sigma(\text{Mean Exposure} / \text{Mean RTV}) \qquad (2)$$

Finally, to estimate risks for the minimally exposed individual who is the least sensitive to COPEC exposures and estimate the lower bound of risks, minimum HI is calculated as follows:

$$\text{Minimum HI} = \Sigma(\text{Minimum Exposure} / \text{Maximum RTV}) \qquad (3)$$

Table 6-27
Summary of Ecological Risk, HI>1
Site 19

Species	HI>1			COPEC
Animal Species	Minimum	Mean	Maximum	
Invertebrate Decomposers				
Earthworms	2.4	87.8	878	Copper
Herbivorous Birds				
House Finch	-	18.1	298	Mercury
Herbivorous Mammals				
SKR	-	5.3	68.6	Mercury
		3.18	41.5	4-Chloroaniline
Deer Mouse	-	15.4	475	Mercury
		1.0	304	4-Chloroaniline
Plant Species				
Non-native Plants				
Foxtail Chess and Redstem Filaree	-	8.08	80.8	Copper

Notes: HI   =   Hazard Index
          COPEC =   Chemical of Potential Ecological Concern

The maximum and minimum HIs sets upper and lower bounds on risks likely to be experienced by representative species. For Site 19, HIs were found to be less than 1 for most representative species for which sufficient toxicity data are available. This indicates that, for most receptors of concern, the potential for adverse impacts from exposure to most COPECs is negligible.

The quantitative risk assessment conducted at Site 19 identified the copper, hexavalent chromium, mercury, molybdenum, nickel, toluene, PAHs, PCBs, chlorinated pesticides, and 4-chloroaniline in soil as chemicals of concern. For most non-native grassland and riparian representative species, the risk assessment identified a negligible potential for adverse ecological effects from exposure to hexavalent chromium, molybdenum, nickel, toluene, PAHs, PCBs, and chlorinated pesticides (i.e., HI less than 1).

Potential adverse ecological impacts were identified to invertebrate decomposers from exposures to copper; herbivorous birds from exposures to mercury; herbivorous mammals from exposures to mercury, and 4-chloroaniline; and non-native grassland plants from exposures to copper as shown in Table 6-27.

There is likelihood that the calculated values overestimate risk to receptors at Site 19. Risks from exposure to mercury, detected in eight of 28 soil samples analyzed, are likely overestimated because the maximum concentration (2.12 mg/kg) was used in the risk evaluation. The average concentration of the remaining 21 samples was 0.05 mg/kg, nearly 40 times less than the value used to determine risk. Furthermore, distribution patterns of mercury in soil indicate that occurrences may be localized and would, therefore, probably not cause population-wide impacts. The maximum concentration of copper was also used, which would likely overestimate risks. In addition, risks from exposure to 4-chloroaniline were likely also overestimated because the compound was found in only two of 37 (or about five percent) soil samples analyzed. Conservative assumptions have also been used when estimating risk from volatile organic compounds in burrow areas by assuming lack of air circulation in burrows.

The risk assessment concluded that damage to receptors of concern from remediation of the entire site would probably cause more damage, due to destruction and loss of habitat, than if the contaminants were left in place. Further, the unfavorable conditions at Site 19, produced by current and continued human activities, would prevent the establishment of significant populations of wildlife species and that any wildlife routinely seen at the site is likely tolerant of human activity and disturbance. Finally, the distribution of COPECs in

Table 6-27 indicates that deleterious exposures would be localized and therefore not likely to cause population-wide impacts to species of concern.

Site 30 - Construction Rubble Burial Site

The purpose of the ecological risk assessment was to evaluate the potential for adverse ecological effects that may occur as a result of past activities at Site 30, Construction Rubble Site. This site is located in the SKR management area. Site 30 and areas surrounding the site are dominated by disturbed non-native grassland vegetation. The site includes an ephemeral pond, bordered by willows.

The potential biological receptors of concern and the assessment endpoint were selected to evaluate concerns at respective levels of biological organization, including individual level impacts for receptors of regulatory concern, and population level impacts for receptors of ecological concern.

The selected receptors of concern are listed in Table 6-28. Based on historical observations, recent surveys, and interviews with Base and regulatory biologists, Site 30 supports no receptors of commercial or recreational concern. Therefore, no assessment endpoints for receptors of commercial or recreational concern were established.

A preliminary scoping assessment was performed, as discussed under the ecological risk assessment for Site 30. The potential for adverse ecological impacts due to exposure to groundwater in non-native grassland habitat at Site 30 does not exist because groundwater is inaccessible to non-native grassland receptors of concern. However, the potential for adverse ecological impacts due to exposure to soils to terrestrial receptors of regulatory and ecological concern existed at Site 30. Also, COPECs were identified in biologically accessible soils and confined air spaces of burrows with the potential for an adverse ecological impact.

Additionally, the potentially complete exposure pathways linking secondary sources of COPECs to biological receptors of concern were identified for this site.

The primary ecological concerns in non-native grassland habitat at Site 30 included the potential for a decline in populations of non-native grassland plants due to the uptake of COPECs in soils or a decline in populations of invertebrate decomposers due to the uptake of COPECs from soil. Another primary ecological concern at Site 30 was the potential for decline in populations of herbivorous birds and mammals due to the ingestion of COPECs in soils, surface water (at the ephemeral pond), and plant tissues. Dermal contact with COPECs in soils and the potential for inhalation of volatile COPECs emitted from soils into confined air spaces of burrows were also exposure pathways of ecological concern at this site for herbivorous birds and mammals.

Decline in populations of predatory birds and mammals due to ingestion of COPECs in soils, surface water (at the ephemeral pond), and prey tissues and dermal contact by burrowing species with COPECs in soils are also exposure pathways that required assessment at Site 30. Finally, decline in populations of burrowing species of predatory birds and mammals due to inhalation of volatile COPECs emitted from soils into confined air spaces of burrows was an additional exposure pathway of ecological concern at Site 30.

Potential health impacts to individuals for species of regulatory concern are also ecological concerns in the non-native grassland habitat at Site 30. This was based on ingestion by the individual of COPECs in soils, surface water (at the ephemeral pond), and prey tissues and dermal contact by burrowing species with COPECs in soils plus the inhalation by burrowing species of volatile COPECs emitted from soils into confined air spaces of burrows.

Table 6-28
Assessment Endpoints for Site 30

Receptor of Concern	Status	Assessment Endpoint
Non-native Grassland Habitat		
Receptors of Regulatory Concern		
Western spadefoot toad	CSC	• Potential adverse health effects to individuals, including but not limited to mortality, reproductive impairment, and developmental abnormalities.
Red diamond rattlesnake	CSC	
California horned lark	CSC	
Loggerhead shrike	FC2	
Cooper's hawk	CSC	
Ferruginous hawk	FC2	
Northern harrier	CSC	
Golden eagle	CSC	
Burrowing owl	CSC	
Stephens' kangaroo rat	FE/SE	
Los Angeles little pocket mouse	CSC,FC2	
San Diego black-tailed jackrabbit	CSC,FC2	
Receptors of Ecological Concern		
Non-native grassland plants		• Potentially significant reduction in population abundance or reproduction for member populations of receptors of ecological concern.
Invertebrate decomposers		
Herbivorous birds		• Potentially significant reduction in abundance of plant and animal populations that are required habitat or important food items for identified receptors of regulatory concern.
Herbivorous mammals		
Predatory birds		
Predatory mammals		
Willow Riparian Habitat (Ephemeral Pond at Site 30)		
Receptors of Regulatory Concern		
Coastal western whiptail	FC2	• Potential adverse health effects to individuals, including but not limited to mortality, reproductive impairment, and developmental abnormalities.
Orange-throated whiptail	FC2	
San Diego horned lizard	CSC	
Least Bell's vireo	FE/SE	
Yellow warbler	CSC	
Willow flycatch	FCE/SE	
California horned lark	CSC	
Loggerhead shrike	FC2	
Cooper's hawk	CSC	
Ferruginous hawk	CSC,FC2	
Northern harrier	CSC	
Golden eagle	CSC	
San Diego black-tailed jackrabbit	CSC,FC2	
Receptors of Ecological Concern		
Willow riparian and aquatic plants		• Potentially significant reduction in population abundance or reproduction for member populations of receptors of ecological concern.
Invertebrate decomposers		
Amphibians		
Aquatic birds		• Potentially significant reduction in abundance of plant and animal populations that are required habitat or important food items for identified receptors of regulatory concern.
Herbivorous birds		
Herbivorous mammals		
Predatory birds		
Predatory mammals		

Notes: CSC = California Species of Special Concern
FC2 = Federal Candidate 2, Threatened and Endangered Species
FE /SE = Federal Endangered Species and State Endangered Species
FSE /SE = Federal Sensitive Species and State Endangered Species

Although shallow groundwater in riparian habitat at Site 30 is accessible to deeper-rooted riparian plants (e.g., willows), the potential for adverse ecological impacts due to exposures to groundwater did not exist because no chemicals were identified as COPECs in shallow groundwater. In addition, no volatile organic compounds were detected in soils or shallow groundwater in this habitat; therefore, the inhalation of air in underground burrows poses no risk to fossorial animals in the willow riparian habitat at Site 30. However, a potential for adverse ecological impacts exists in willow riparian habitat at Site 30 because receptors of regulatory and ecological concern were identified at this site. Also, COPECs were identified in biologically accessible soils and confined air spaces of burrows. Finally, potentially complete exposure pathways linking secondary sources of COPECs to biological receptors of concern were identified.

The primary ecological concerns in willow riparian habitat surrounding the ephemeral pond at Site 30 included the potential for decline in populations of emergent aquatic plants due to the uptake of COPECs in sediments. Decline in populations of willow riparian herbaceous plants and trees due to the uptake of COPECs in soils was also an ecological concern in this habitat as was the decline in populations of willow riparian invertebrate decomposers due to the uptake of COPECs in soils.

For the willow riparian habitat at Site 30, potential decline in populations of waterfowl due to ingestion of COPECs in sediments, pond surface water, and aquatic plant tissues was another ecological concern. The potential for decline in populations of willow riparian herbivorous birds and mammals due to ingestion of COPECs in soils, pond surface water, and plant tissues, and dermal contact by burrowing species with COPECs in soils were other ecological concerns at Site 30. Potential decline in populations of predatory birds and mammals due to ingestion of COPECs in soils, pond surface water, and prey tissues, and dermal contact by burrowing species with COPECs in soils were also ecological concerns at Site 30. Finally, health impacts to individuals for species of regulatory concern due to ingestion of COPECs in soils, pond surface water, and prey tissues, and dermal contact by burrowing species with COPECs in soils were considered concerns during the ecological risk assessment at Site 30

Exposure evaluations, selection of toxicity data, and the quantitative risk assessment for Site 30 were performed as discussed for Site 19 above.

The quantitative risk assessment conducted at this site identified arsenic, molybdenum, selenium, silver, 1,1,1-trichloroethane (1,1,1-TCA) and dioxins/furans as chemicals of concern in soil, and ethylbenzene, toluene, and xylene as chemicals of concern in soil gas. For most non-native grassland and riparian representative species, the risk assessment identified a negligible potential for adverse ecological effects from exposure to arsenic, selenium, silver, 1,1,1-TCA, and dioxin/furans. Negligible risk was also identified to resident aquatic wildlife from arsenic and selenium in surface water with maximum concentrations of these substances below the EPA National Ambient Water Quality Criteria for the Protection of Freshwater Life. Exposure to ethylbenzene, toluene, and xylene was considered infrequent because these compounds were detected in only two of 111 soil gas samples. These compounds are, therefore, not expected to have an adverse impact on ecological receptors.

Potential adverse ecological impacts were identified to plant species, herbivorous birds, herbivorous mammal from exposures to COPECs identified at Site 30 as detailed in Table 6-29.

There is a likelihood that the calculated values overestimate risk to receptors at Site 30. The COPEC, 1,1,1-TCA, was detected in two of nine soil samples collected in non-native grassland habitat at Site 30.

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Table 6-29
Summary of Ecological Risk, HI>1
Site 30

Species	HI>1			Habitat	COPEC
Animal Species	Minimum	Mean[1]	Maximum		
Herbivorous Birds					
House Finch	-	-	4.92	Grassland	Molybdenum
	-	-	1.51	Riparian	Selenium
Herbivorous Mammals					
Deer Mouse	-	1.54	46.2	Grassland	Molybdenum
	-	5160	150,000	Grassland	1,1,1-TCA
SKR	-	-	7.54	Grassland	Molybdenum
	-	-	2.4	Riparian	Selenium
	-	1760	22,300	Grassland	1,1,1-TCA
Plant Species					
Non-native Plants					
Foxtail Chess and	-	2.58	25.8	Grassland	Molybdenum
Redstem Filaree		2.54	25.4		Silver

Notes: HI   = Hazard Index
COPEC = Chemical of Potential Ecological Concern
1   = The mean HI provides an estimate of risk to the average individual of a population, i.e.,
risk due to COPEC exposures.

A review of the laboratory analysis indicated that this compound may be a laboratory contaminant, but for conservatism, the compound was carried through the risk assessment process. For 1,1,1-TCA, a maximum concentration of 0.003 mg/kg and a minimum concentration of 0.0002 mg/kg were reported and the 95% Upper Confidence Limit (UCL) was calculated to be approximately 441 mg/kg, over 170,000 times the maximum observed concentration. Based on soil properties for Site 30, soils would be saturated with 1,1,1-TCA at a concentration of 252 mg/kg. Therefore, due to this statistical aberration the exposure concentration used in the risk assessment exceeded soil saturation levels, which is impossible. When using the maximum observed soil concentration, the maximum HIs were reduced by over 10,000, resulting in maximum HIs less than one. Selenium was detected in only the sediment samples collected at Site 30. The selenium is expected to be concentrated in the pond sediments. It is probably indicative of background concentrations and comparison to soil background would show elevated concentrations. Therefore, sediment exposures would likely be overestimated by use of the detected concentration and further overestimated by use of 95% UCL concentrations. Silver was detected in only two samples out of 28 and molybdenum in seven samples out of 28 samples from the depth of interest for ecological risk assessments, and as with selenium use of the 95UCL concentrations would overestimate risks.

The risk assessment concluded that damage to receptors of concern from remediation of the entire site would probably cause more damage, due to destruction and loss of habitat, than if the contaminants were left in place. Additionally, if the site is developed for industrial purposes, no habitat would remain. Therefore, no further action is appropriate for Site 30. Finally, the distribution of COPECS in Table 6-29 indicates that deleterious exposures would be localized and therefore not likely to cause population-wide impacts to species of concern.

DECISION SUMMARY:
7.0 - DESCRIPTION OF ALTERNATIVES

7.0 DESCRIPTION OF ALTERNATIVES

The following sections are summaries of groundwater and soil cleanup alternatives evaluated during the OU2 FS. Remedial alternatives were developed for those sites with identified risk.

As previously discussed, some of the sites addressed in the AFRPA OU2 ROD will not require action for one or more of the following reasons: (1) no contamination was found during the OU2 RI; (2) contamination found at the site does not pose a risk to human health or the environment; or (3) contamination has been removed and the remaining contamination, if any, is within the risk range identified in the NCP and does not pose an unacceptable risk.

Contamination was not detected at Site 22 or 23 during the OU2 RI. The risk assessment for Site 30 shows no risk above the risk range identified in the NCP. Sampling following the removal action at Site 40 shows no human health risk above the risk range identified in the NCP. Mercury detected in pond sediments may be a concern for ecological receptors and will be addressed as previously discussed (Section 5.1.14, Page 5-17). Sampling following removal actions at Sites 3, 20, 24, 25, 26, 35, and 42 confirmed that the residual contamination levels are protective of human health and the environment. Details of the investigation are provided in Sections 5 and 6 of this ROD. The remaining sites (Sites 6, 12, 17, and 19), which have contamination requiring response actions, are discussed below.

7.1 REMEDIAL ACTION OBJECTIVES

The objective of the remedial actions for the AFRPA OU2 ROD sites at March AFB is to assure that human health and the environment will be protected before and after the property is transferred and used for the expected future use. This objective will be achieved at the four sites requiring further response actions by limiting future use of the property and the groundwater underlying them, as applicable. To prevent unacceptable risks to human health and the environment, the selected restrictions will, among other things, prohibit residential and other uses.

At Site 6, there are additional restrictions detailed in the *Operations and Maintenance Work Plan - Operable Unit 2, Site 6, Landfill No. 4 - March Air Force Base, California* (July 1999) ("Site 6 O&M Work Plan") to assure protection of the engineered waste cells constructed during the removal action and to ensure that the wastes will be contained. Requirements for maintenance and monitoring of the engineered waste cells are described in Title 27 of the California Code of Regulations ("Title 27"). The groundwater at the AFRPA OU2 sites is not now used for drinking, irrigation or any other purpose. However, the groundwater is considered a potential drinking water source, and as such, the objective of any remedial actions for groundwater for the AFRPA OU2 ROD sites at March AFB that require action, is to restrict the use of groundwater until monitoring shows the concentration of contaminants are below MCLs. Of the OU2 sites, only Sites 6 and 12 require action for groundwater. At Site 6, engineering controls are in place to prevent groundwater contact with the waste. Groundwater monitoring is and will be performed as required by Title 27 and the Site 6 O&M Work Plan. At Site 12, restrictions will be placed on groundwater use until contaminant levels in groundwater decline to below MCLs. The groundwater monitoring at Site 12 is and will be performed as part of the comprehensive groundwater-monitoring program under the *Quality Program Plan - Long-Term Groundwater Monitoring, Long-Term Operation, and Long-Term Operation and Maintenance Programs, March ARB, California* (September 2000), as amended and supplemented ("March ARB Quality Program Plan").

The site-specific remedial action objectives are:

Site 6

- Limit use of the property to prevent unacceptable risk
- Prevent exposure to landfill waste and landfill gases
- Prevent or minimize migration of landfill contaminants to vadose zone and to groundwater and protect water quality
- Protect remedial system from damage and ensure the integrity of waste cells and associated systems

Site 12

- Prevent exposure to contaminated groundwater
- Ensure the integrity of the groundwater monitoring system

Site 17

- Limit use of the property to prevent unacceptable risk
- Prevent exposure to contaminated soil

Site 19

- Limit use of the property to prevent unacceptable risk
- Prevent exposure to contaminated soil

7.2 REMEDIAL ALTERNATIVES FOR SOIL AND GROUNDWATER

This section discusses response actions to address the AFRPA OU2 soil and groundwater. Not all response actions described below were evaluated for each site. The actions evaluated for each site were selected based on current site conditions, including the results of previous removal actions at Sites 6, 12 and 17. If removal actions were completed for the site, only the No Action Alternative and ICs Alternative were evaluated. The removal action process evaluated other remedial alternatives, including alternatives resulting in unrestricted land use. Detailed descriptions of the evaluated treatment methodologies are provided in Section 2.5 of the *Final Remedial Investigation/Feasibility Study (RI/FS) Operable Unit #2, March Air Force Base (AFB)*, July 1997. The Air Force will conduct five-year reviews to ensure the continued protection of human health and the environment, as specified in CERCLA and the FFA.

Selected remedies must comply with applicable or relevant and appropriate requirements (ARARs). The ARARs for Sites 6, 12, 17, and 19 are listed in Appendix C. In accordance with the March AFB Federal Facilities Agreement, the parties agree that the selected remedies meet or exceed all applicable or relevant and appropriate federal and state laws and regulations to the extent required by CERCLA Section 121 (42 U.S.C. § 9621). Subject to that prior agreement and the selection of remedies for the sites in this ROD, the State's authority to bring actions based on violations of State law or regulation that may threaten human health or the environment, or to otherwise enforce such State legal authority, is not impaired by that authority not being listed as an ARAR in this ROD.

No Action.

The No Action Alternative must be evaluated at each site as a basis for comparison of existing site conditions with other proposed alternatives. Under this alternative, no action would be taken to address groundwater or soil contamination or to minimize further contaminant releases.

ICs Alternative.

ICs are being applied to only four sites (see figure 7-1). ICs for Site 6 and Site 12 are intended to preserve the engineering controls and groundwater monitoring systems previously implemented through removal actions and to prevent or limit exposure to contaminants. The ICs are non-technical, non-engineering actions that support or complement the required landfill post-closure actions and groundwater monitoring being performed under the March ARB Quality Program Plan. At Sites 17 and 19, the ICs are the only remaining component of the remedy.

Specific language is included in this ROD regarding implementation, monitoring, and enforcement of the selected ICs. Therefore, compliance with the terms of this ROD will be protective of human health and the environment. Because the restrictions are specifically described in Section 9 and the means for implementing the restrictions are detailed in Section 7, it is not necessary for the Air Force to submit any new post-ROD, IC implementation documents, such as a Land Use Control Implementation Plan (LUCIP), a new O&M plan or a Remedial Action (RA) work plan. The existing Site 6 O&M Work Plan will be revised to include the restrictions as well as the implementation, monitoring, reporting and enforcement measures described in Section 7.2.1, "ICs Alternative." The Air Force in its discretion, may develop one or more such documents, and will provide USEPA and the State of California any implementation documents it develops.

As part of the NPL deletion process, EPA must make the determination that the remedial action for OU2 has achieved its objectives. In this case, because the OU2 remedy consists of ICs only, EPA's determination that the remedy achieved its protectiveness objectives will be made based on the IC annual monitoring reports, so long as adequate information is provided in the reports.

The ICs Alternatives include various enforceable use restrictions and land use controls on the use of the property and groundwater. The Air Force is responsible for implementing, maintaining, monitoring and reporting the remedial actions (including institutional controls) before and after property transfer. The Air Force will exercise this responsibility in accordance with CERCLA and the National Contingency Plan (NCP). Any grantee of property constrained by ICs imposed in their deed may request modification or termination of the ICs. Any modification or termination must be approved by the Air Force, USEPA, and the State of California.

The regulatory agencies may conduct inspections of operations and maintenance activities and ICs at Sites 6, 12, 17, and 19 and groundwater monitoring at Sites 6 and 12. The Air Force will continue to provide access to the property for those purposes, as required under the Federal Facilities Agreement, and the deed transferring the property will reserve a right of access to the property for those purposes for itself, USEPA, and the State of California.

During the time between adoption of this ROD and deeding of the property, equivalent restrictions are implemented by lease terms. The parcels of property encompassing Sites 12, 17 and 19 are currently leased in furtherance of conveyance to the March Joint Powers Authority under Air Force Lease No. BCA-MAR-13-00-0101 (2000) ("Master Lease"). The lease restrictions are in place and operational and will remain in place until the property is transferred by deed. At the moment of deed transfer, the lease restrictions will be superseded by the restrictions to be included in the federal deed and the State Land Use Covenant described in this ROD.

The property encompassing Site 6 is currently retained by the Air Force. The existing Site 6 O&M plan prohibits access and use except for activities directly related to the operation and maintenance of the landfill remedy. Upon deed transfer, the lease and its restrictions will terminate and the restrictions the federal deed and the State Land Use Covenant described in this ROD will become effective. For any property transferred to another federal agency, the transfer document will provide that the agency will incorporate the restrictions into its land use comprehensive plan and include the restrictions in any transfer to another federal agency or future deed to a non-federal entity.

Meeting remedial action objectives shall be the primary and fundamental indicator of performance, the ultimate aim of which is to protect human health and the environment. Performance measures for ICs are the remedial action objectives, plus the actions necessary to achieve those objectives. It is anticipated that successful implementation, operation, maintenance, and completion of these measures will achieve protection of human health and the environment and compliance with all legal requirements.

Descriptions of the ICs for Sites 6, 12, 17, and 19 are provided in site-specific discussions below and in Section 9 of this ROD. The maintenance requirements for the Site 6 landfill engineered waste cells are further described in the Site 6 Operations and Maintenance (O&M) Work Plan (Tetra Tech, Inc and Black & Veatch, 1999). One task within the Site 6 O&M is the monitoring of landfill gas migration. Very recent monitoring results indicate that a landfill gas control action may be necessary. As appropriate, the OU2 ROD or Site 6 O&M Work Plan will be modified (e.g. explanation of significant differences, modification, or addendum) to include any future landfill gas remedial action(s) in compliance with CCR Titles 22 and 27 and relevant South Coast Air Quality Management District Rules.

Within 180 days of the execution of this Record of Decision, the Air Force will submit to the regulatory agencies for review and approval a revised O&M Work Plan that will include sampling and monitoring requirements for landfill gas, including frequency, location, analytical methods and field procedures in accordance with California Code of Regulations, Title 22 and Title 27. If the sampling and monitoring of landfill gas reveals that the concentrations of hazardous constituents are above regulatory limits, the Air Force will submit a plan to control the release of such substances to the regulatory agencies for review and approval. As appropriate, the OU2 ROD will be modified (e.g., explanation of significant differences or amendment) to include any future landfill gas remedial action(s).

The Air Force may contractually arrange for third parties to perform any and all of the above actions, although the Air Force is ultimately responsible under CERCLA for the successful implementation of the ICs, including monitoring, maintenance, review, and reporting of ICs.

Deed Restrictions and Reservation of Access

Each federal deed or letter of transfer to another federal agency will include a description of the residual contamination on the property, as described in the discussions of the sites below, and the specific restrictions set forth in Section 9. The ICs, in the form of deed restrictions, are "environmental restrictions" under California Civil Code section 1471. Letters of transfer to other federal agencies will also include a requirement that further transfers of the property, whether by deed or letter of transfer, will contain appropriate provisions to ensure that the restrictions continue to run with the land, as provided in California Civil Code section 1471. Deeds and letters of transfer will include legal descriptions of the sites covered by restrictions and of the locations of monitoring wells at Site 6 and Site 12.

AFRPA OU2 ROD (former March AFB)

7-5

Site 12, IC remedy
- Protect groundwater or monitoring
  equipment or systems
- Protect access to monitoring equipment
  or systems
- Prohibit groundwater extraction for any purpose
  other than monitoring

Site 6, IC remedy
- Prohibit residential resue
- Protect landfill cover and monitoring systems
- Prohibit construction that could peneterate
  the landfill cap
- Maintain appropriate barriers to protect landfill
  and notify public
- Protect landfill monitoring and maintenance
  equipment
- Prohibit groundwater extraction for any purpose
  other than monitoring
- Prohibit surface application of water to the
  extent that the integrity of landfill is impacted
- Prohibit injection of water or other fluids

Site 17, IC remedy
- Prohibit residential reuse
- Prohibit drilling or excavation greater than 7ft
  below ground surface

Site 19, IC remedy
- Prohibit residential use
- Maintain fencing and signs to restrict
  access and notify public
- Prohibit any activity that would disturb
  the soil in the former sludge drying pits

**The IC remedies summarized in this
figure are more fully described in
Sections 7 and 9 of this ROD.**

Location of OU2 ROD
Institutional Control Sites

2000   0   2000   Feet

N

Figure: 7-1

phil m/march alt sites 0703.apr (041504)

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Each deed will also contain a reservation of access to the property as required under CERCLA for the Air Force, USEPA, and the State of California, and their respective officials, agents, employees, contractors, and subcontractors for purposes consistent with the Air Force Installation Restoration Program ("IRP") or the Federal Facility Agreement ("FFA").

The environmental restrictions are the basis for part of the CERCLA 120(h)(3) covenant that the United States is required to include in the deed for any property that has had hazardous substances stored for one year or more, known to have been released or disposed of on the property. During the time between adoption of this ROD and deeding of the property, appropriate restrictions are implemented by the lease between the Air Force and the March Joint Powers Agency.

Notice of Institutional Controls

The Air Force will include the specific deed restriction language set forth in Section 9 in any FOST for a parcel that includes one of the sites for which ICs are selected pursuant to this Record of Decision, and will provide a copy of the deeds to the regulatory agencies as soon as practicable after the transfer of fee title. The deed restriction language and State Land Use Covenant language incorporating those restrictions will be consistent. The Air Force will provide information to the property owners regarding necessary ICs in the FOST and the draft deed. The signed deed will also include the specific land use restrictions. The information will also be communicated to appropriate state and local agencies with authority regarding any of the activities or entities addressed in the controls to ensure that such agencies can factor the information into their oversight, approval, and decision-making activities.

Annual Evaluations/Monitoring:

The Air Force will conduct annual monitoring and undertake prompt action to address activity that is inconsistent with the IC objective or use restrictions, exposure assumptions (such as industrial use, rather than residential use) or any action that may interfere with the effectiveness of the ICs. The Air Force will submit to the regulatory agencies annual monitoring report on the status of the ICs and how any IC deficiencies or inconsistent uses have been addressed. The report will also address whether the owners and affected state and local agencies were notified of the controls affecting the property. The IC monitoring reports will not be subject to approval and/or revision by the regulatory agencies. The annual monitoring reports will be used as part of the Five Year Review to evaluate the effectiveness of the remedy. The Five-Year Review report will make recommendations on the continuation, modification, or elimination of annual reports and IC monitoring frequencies. The Five-Year Review report will be submitted to the regulatory agencies for review and comment.

Response to Violations:

The Air Force will notify EPA and the State via e-mail or telephone as soon as practicable, but no later than 2 weeks after discovery of any activity that is inconsistent with the IC objective or use restrictions, exposure assumptions or any action that may interfere with the effectiveness of the ICs. Not later than 10 days following such notice, the Air Force will provide EPA and the State with a description of the corrective actions taken or planned (including proposed enforcement actions, if any) to address the conditions described in the notice. This description is not subject to regulator review. Any violations that breach federal, state or local criminal or civil law will be reported to the appropriate civilian authorities, as required by law.

Enforcement:

The regulatory agencies may conduct inspections of the ICs at Sites 6, 12, 17 and 19. Prior to property transfer, the Air Force will provide access to the regulatory agencies for the purpose of inspections. The deed transferring property or letter of transfer to another federal agency will provide for such access to the regulatory agencies.

Any activity that is inconsistent with the IC objective or use restriction, exposure assumptions or any action that may interfere with the effectiveness of the ICs will be addressed by the Air Force as soon as practicable after the Air Force becomes aware of the violation, but in no event will the process be initiated later than 14 days after the Air Force discovers the violation. The Air Force will exercise such rights as it retained under the transfer documents to direct that activities in violation of the controls be immediately halted. To the extent necessary, the Air Force will engage the services of the Department of Justice to enforce such rights. State law gives the State separate enforcement authority against future landowners. See "State Land Use Covenants," below.

Approval of Land Use Modification:

The recipient of the property will obtain joint approval from the Air Force, USEPA and the State of California for any proposals for modification of ICs or for any proposal for a modification of land use at a site inconsistent with the use restrictions and assumptions described in the ROD.

State Land Use Covenants

Before transfer of title to the property including one or more of the sites at which ICs are selected to a non-federal entity, the Air Force will execute a State Land Use Covenant with the State that includes the restrictions described in Section 9, legal descriptions of the property and affected areas, and provisions for regulatory agency access for purposes of inspections, monitoring and other activities. The State Land Use Covenant will be recorded before the recording of the federal deed. The State will enter into the State Land Use Covenant pursuant to State law, including California Code of Regulations, Title 22, Section 67391.1. The State Land Use Covenant will be based on the model Covenant to Restrict Use of Property developed by DTSC. Modifications or termination of the State Land Use Covenant must be undertaken in accordance with State law, CERCLA, the National Contingency Plan, and the Installation Restoration Program. In addition, Title 22, California Code of Regulations Section 67391.1 imposes certain obligations and restrictions on DTSC, including prohibitions on DTSC's certifying satisfactory completion of response actions, or approving or concurring in certain response action decision documents, or considering property suitable for transfer to non-federal entities, unless appropriate land use covenants will be executed and recorded when hazardous substances will remain at the property at levels that are not suitable for unrestricted use. This regulation also provides for modification and termination of State Land Use Covenants. The Air Force will pay the State of California reasonable, nondiscriminatory costs associated with administration of the State Land Use Covenants, subject to appropriation of funds through the Defense State Memorandum of Agreement or some alternative payment mechanism. "Nondiscriminatory costs" means costs similar to those paid by other parties for such land use covenant administration.

Excavation and Offsite Incineration Alternative

Under the Excavation and Offsite Incineration Alternative for Site 19, the soils with residual contamination above levels protective of human health and the environment would be excavated and treated by incineration. The excavated soils would be transported to an offsite incineration facility in compliance with appropriate state and federal regulations. The excavations would be restored by backfilling or regrading and reseeding of the area disturbed during the remedial action. Wastes may be incinerated in an inclined rotating kiln incinerator. Waste and auxiliary fuels are introduced to the high end of the kiln, and the rotation of the kiln agitates the

solid materials being burned. The primary combustion chamber is maintained at temperatures of 1,000°F to 1,800°F. Exhaust gases from the kiln are passed to a secondary chamber or afterburner where they are exposed to temperatures around 2,200°F. Residual ash and exhaust vapors generally require further treatment.

Excavation and Off-Base Landfill Disposal Alternative

Under the Excavation and Off-Base Landfill Disposal Alternative for Site 19, the soils with residual contamination above levels protective of human health and the environment would be excavated. The excavated soils would be transported to and disposed of in a licensed waste treatment, storage and disposal facility (TSDF). The excavations would be restored by backfilling or regrading and reseeding of the area disturbed during the remedial action.

7.2.1   Site 6 – Soil and Groundwater

At Site 6, contamination is contained within the engineered waste cells. A removal action including the construction of these engineered waste cells, was conducted in accordance with the Site Specific Action Memorandum, Site 6, OU-2, February 1995 and the Modification to the Site-Specific Removal Action Memorandum, Site 1, 9, 25 and 12 UST Locations and Consolidation to OU2 Site 6, February 1996. This ROD recognizes the completion of that action and selects the addition of ICs as the final remedy for the site. Operation, maintenance and monitoring of the Site 6 landfill closure are ongoing per the approved O&M Work Plan (Tetra Tech, Inc and Black & Veatch, 1999) and the March ARB Quality Program Plan. The Air Force will continue to implement the O&M Work Plan to protect the waste cells and cap and to ensure continued proper operation of the liner and leachate control system. The Air Force will also revise the O&M Work Plan to include monitoring of possible migration and control of the landfill gases. Additional information regarding Site 6 site characteristics is provided in Section 5.1.2 and in Section 6.1.3.

The following remedial alternatives were evaluated for Site 6:

- No Action, and

- ICs Alternative.

The anticipated future land use for Site 6 is passive use associated with open space use specified in the March reuse plan (March Joint Powers Authority, 2003). The site currently is open space with no structures except the engineered waste cells and associated features. The passive use associated with open-space land use is the exposure scenario used to select the remedy.

Description of Remedy Components.

No Action.

Under this alternative, the engineered waste cells and the existing monitoring and other systems could be more vulnerable to disturbance or removal. This alternative would not address the potential for direct exposure to construction or industrial workers or residents should the site be developed, prevent migration of the contaminants should future construction expose contaminated materials in the waste cells, or protect the waste cells from damage from any type of construction activities or natural forces such as erosion. Therefore, it does not provide overall protection of human health and the environment.

ICs Alternative.

The ICs imposed at Site 6 will include controls to limit exposure to contaminated soil, prevent or minimize migration of landfill contaminants, and protect the integrity of the engineered waste cells and associated structures.

The institutional controls imposed on Site 6 would:

Limit use of the property to prevent unacceptable risk by -

- prohibiting use for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

Prevent exposure to landfill waste and gases and ensure the integrity of the waste cells by -

- prohibiting construction, excavation, drilling, grading, removal, trenching, filling earth movement, mining, or planting that would disturb the soil or the landfill cover, including the vegetative cap, except for the purpose of monitoring groundwater or landfill gas.

- prohibiting extraction of groundwater for any purpose other than monitoring.

- prohibiting disturbance or removal of fencing or, signs, or other barriers intended to exclude the public from the landfill.

Prevent or minimize migration of landfill contaminants to vadose zone and to groundwater and protect water quality by -

- prohibiting the surface application of water (e.g. irrigation) to the extent that the integrity of the landfill is impacted and injection of water or other fluids that might affect groundwater flow direction.

- prohibiting activities that could affect the drainage, sub-drainage, or erosion controls for the landfill cover.

Protect remedial system from damage and protect the integrity of waste cells and associated systems by -

- prohibiting disturbance of any equipment and systems associated with monitoring and maintenance or settlement monuments.

- prohibiting activities that would limit access to any equipment and systems associated with monitoring and maintenance or settlement monuments.

This alternative will not reduce contaminant toxicity, mobility or volume of contaminants. However, offsite migration is considered unlikely under the specified restrictions because the waste has been contained within engineered waste cells.

This alternative complies with ARARs as listed in Appendix C. ARARs for landfill operation and maintenance are included in the Site 6 O&M Closure/Post Closure Maintenance Plan, Site 6, OU-2, Final, May 1995 and continue to be valid requirements despite not being repeated here as ARARs. Additional ARARs for inclusion in the Site 6 O&M Work Plan are also listed in Appendix C.

Costs for this alternative consist of the estimated annual costs of institutional controls and reporting. The cost of landfill operations and maintenance (cap maintenance, groundwater monitoring, leachate collection/disposal, · and reporting) is not included in the cost estimate for the ICs alternative. These existing, ongoing costs are estimated at $50,000 per year.

ICs would be required until modified or terminated with the approval of the regulatory agencies. Because there are no historical cost data on maintenance of ICs, the estimated cost of doing so has a high degree of uncertainty. Because it does not include considerations such as probable economies of scale that would be realized by combining like activities for numerous sites, it must be considered a conservative (high) estimate. No capital costs are associated with this alternative.

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Estimated Annual Cost of ICs Remedy $20,000

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7.2.2   Site 12 – Groundwater and Surface and Subsurface Soil

At Site 12, residual petroleum hydrocarbon contamination remains near a washbasin. Excavation during a removal action was halted on the north and east sides of the washbasin before all petroleum hydrocarbon residues were removed. With the agreement of the regulators that the contamination levels were acceptable because the physical setting of the contaminated areas minimized the chance for human exposure to the soils, the excavation was backfilled with clean soil. Confirmation sampling demonstrated that the metals cadmium and chromium were removed to below industrial PRGs, but remain above residential PRGs. However, the risk is within the risk range identified in the NCP and no restrictions on use are required for metals. Additional information is provided in Sections 5.1.3 and 6.1.3. No ICs are required for that petroleum hydrocarbon contamination, because the residual contamination levels of those contaminants are acceptable for unrestricted use.

Groundwater beneath Site 12 has become impacted by TCE and PCE. The groundwater contamination is in a small area and is only slightly above maximum contaminant levels (MCLs).

The anticipated future land use for Site 12 is mixed use which includes a variety of complementary land uses such as commercial, business park, offices, medical, vocational, research and development, and services (March JPA, 1999). The site currently is developed with multiple structures formerly used as work areas and office space for civil engineering operations on March AFB. Mixed use is the exposure scenario used to select the remedy. The following remedial alternatives were evaluated for the residual contamination remaining after the removal action at Site 12:

- No Action, and

- ICs Alternative.

Description of Remedy Components.

No Action.

Under this alternative, existing monitoring systems would be more vulnerable to disturbance or removal and nothing would prevent withdrawal and usage of contaminated groundwater with subsequent exposures from drinking or bathing. Therefore, it provides no overall protection of human health and the environment.

ICs Alternative.

The ICs imposed at Site 12 will include controls to limit exposure to TCE- and PCE-contaminated groundwater and protect groundwater-monitoring systems.

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Institutional controls at Site 12 would:

Protect the groundwater-monitoring system by-

- prohibiting disturbance of any equipment and systems associated with groundwater monitoring.

- prohibiting activities that would limit access to any equipment and systems associated with groundwater monitoring.

Prevent exposure to contaminated groundwater by -

- prohibiting groundwater extraction for any purpose other than monitoring.

This alternative will not reduce contaminant toxicity, mobility or volume of contaminants. However, offsite migration is considered unlikely because of the low concentrations and limited extent of contamination in the groundwater.

This alternative complies with ARARs, as listed in Appendix C. ARARs for monitoring are included in the March ARB Quality Program Plan and continue to be valid requirements, despite not being repeated here as ARARs. Additional ARARs for inclusion in the March ARB Quality Program Plan are also listed in Appendix C.

Costs for this alternative consist of the costs of ICs site inspections and reporting, but do not include the costs of groundwater monitoring, which is being performed under the March ARB Quality Program Plan. ICs would be required until modified or terminated. Because there are no historical cost data on maintenance of ICs, the estimated cost of doing so has a high degree of uncertainty. Because it does not include considerations such as probable economies of scale that would be realized by combining like activities for numerous sites, it must be considered a conservative (high) estimate.

Estimated Annual Cost of ICs Remedy $6,000

7.2.3   Site 17 - Subsurface Soil

At Site 17, low levels of PCBs are present in soils at least 8 feet beneath the ground surface. No PCB contamination has been found in the groundwater. Additional information regarding the remedial contamination at Site 17 is provided in Sections 5.1.4 and 6.1.3.

The anticipated future land use for Site 17 is part of the historic district that includes the adjacent Green Acres Housing Area (March JPA, 1999). The site currently is open space with no structures.

The following remedial alternatives were evaluated for Site 17 subsurface soil:

- No Action, and

- ICs Alternative.

Description of Remedy Components

No Action.

Under this alternative, the site would be unprotected. This alternative would not reduce the potential for exposure to construction or industrial workers or residents should the site be developed, or prevent migration of the contaminants should future construction expose the contaminated materials that are below the surface. Therefore, it provides no overall protection of human health and the environment.

ICs Alternative.

The ICs imposed at Site 17 will include controls to limit exposure to contaminated soil and to ensure that the property is safe for industrial or commercial use.

Institutional controls at Site 17 would:

Reduce risk to acceptable level by -

- prohibiting use for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

Prevent exposure to contaminated soil by -

- prohibiting any activity that will disturb the soil at or below 7 feet below ground surface.

This alternative will not reduce contaminant toxicity, mobility or volume of contaminants. However, offsite migration is considered unlikely because of the low mobility of the residual contamination.

This alternative complies with ARARs (Appendix C).

Costs for this alternative consist of the estimated annual cost of ICs such as site inspections and reporting. ICs would be required until modified or terminated. Because there are no historical cost data on maintenance of ICs, the estimated cost of doing so has a high degree of uncertainty. Because it does not include considerations such as probable economies of scale that would be realized by combining like activities for numerous sites, it must be considered a conservative (high) estimate. No capital costs are associated with this alternative.

Estimated Annual Cost of ICs Remedy	$6,000

7.2.4   Site 19 - Surface and Near-surface Soil

In the past at Site 19, sludge from the wastewater treatment facility was spread in unlined drying beds. Surface and near-surface soils contaminated with PAHs, PCBs, hexavalent chromium, and thallium were found sporadically throughout the site. Additional information regarding Site 19 is found in Sections 5.1.5 and 6.1.3.

The current and anticipated future land use for Site 19 is a public wastewater treatment facility (March JPA, 1999). The western portion of the site currently contains sludge drying beds associated with the adjacent wastewater treatment facility. The eastern portion of the site is undeveloped open space.

The following remedial alternatives were evaluated for Site 19 surface and near-surface soil:

- No Action,

- ICs Alternative,

- Excavation and Off-Base Landfill Disposal, and

- Excavation and Off-Base Incineration.

Description of Remedy Components.

No Action.

Under this alternative, affected soils would remain in place untreated. This alternative would not reduce the potential for exposure to industrial workers or construction or residents should the site be developed, or prevent migration of the contaminants should future construction cause dispersion of contaminated soils. Therefore, it provides no overall protection of human health and the environment.

ICs Alternative.

The ICs imposed at Site 19 will include controls to limit exposure to contaminated soil and to ensure that the property is safe for industrial or commercial use.

Institutional controls at Site 19 would:

Limit use of the property to prevent unacceptable use by -

- prohibiting use for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

Prevent exposure to contaminated soil by -

- prohibiting any activity that would disturb the soil in the former sludge drying pits.

- prohibiting removal, disturbance, or other interference with fences or other barriers to access to or signs notifying the public of Site 19.

This alternative will not reduce contaminant toxicity, mobility or volume of contaminants. However, offsite migration is considered unlikely due to the low mobility of the contaminants involved.

This alternative complies with ARARs (Appendix C).

Costs for this alternative consist of the estimated annual cost of maintaining the fence and of ICs site inspections and reporting. ICs would be required until modified or terminated. Because there are no historical cost data on maintenance of ICs, the estimated cost of doing so has a high degree of uncertainty. Because it does not include considerations such as probable economies of scale that would be realized by combining like activities for numerous sites, it must be considered a conservative (high) estimate. No capital costs are associated with this alternative.

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Estimated Annual Cost of ICs Remedy $7,000

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Excavation and Off-Base Disposal.

This alternative would include the excavation, transport, and disposal of affected soil in an off-site landfill. The excavation would be backfilled with clean soil. This alternative would be protective of human health for all exposure scenarios and the environment because contaminants would be removed from the site. The soil would not be treated, and there would be no change in the volume and toxicity of the material. The material would be confined in a closed cell, and the mobility would be reduced. Short-term effects during excavation and handling of contaminated soil would be controlled by implementing engineering controls and by using proper personal protective equipment. The cost of this alternative would be relatively high compared to the reduction in risk that would be achieved especially as related to use as a public facility.

Costs for this alternative consist of the one-time costs for excavation, transport and off-site disposal in the estimated one-year implementation period. No recurring operation and maintenance costs are associated with this alternative.

Total Project Cost/Present Worth:	$3,402,700
Capital Cost:	$3,402,700
Annual O&M Cost:	$0

(One-time cost, assuming 7,000 cubic yards of soil)

Excavation and Off-Site Incineration.

This alternative would include the excavation of affected soil, transport of this soil to an off-site licensed treatment facility, and treatment by incineration. The excavation would be backfilled with clean soil. This alternative would be protective of human health for all exposure scenarios and the environment because contaminants would be removed from the site providing long-term effectiveness and permanence. The cost of this alternative would be relatively high compared to the reduction in risk that would be achieved especially as related to use as a public facility. Long-term effectiveness and permanence and reduction of toxicity, mobility, and volume of contaminants would be achieved. Short-term effects during excavation and handling of contaminated soil would be controlled by implementing engineering controls and by using proper personal protective equipment.

Costs for this alternative consist of the one-time costs for excavation, transport and off-base incineration in the estimated one-year implementation period. No recurring operation and maintenance costs are associated with this alternative.

Total Project Cost/Present Worth:	$3,772,800
Capital Cost:	$3,772,800
Annual O&M Cost:	$0

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DECISION SUMMARY:
8.0 - SUMMARY OF COMPAR. ANALYSIS OF ALTERNATIVES

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8.0 SUMMARY OF COMPARATIVE ANALYSIS OF ALTERNATIVES

Each of the remedial alternatives identified in this ROD has been evaluated against the nine evaluation criteria set forth in the NCP (*see* 40 C.F.R. § 300.430(e)(9)). The nine criteria are organized into three categories; threshold criteria, primary balancing criteria, and modifying criteria. Threshold criteria must be satisfied in order for a remedy to be eligible for selection. Primary balancing criteria are used to weigh major trade-offs between remedies. Modifying criteria are formally taken into account after public comment is received on the Proposed Plan. The criteria, as well as the evaluation of the alternatives against such criteria, are set forth below.

THRESHOLD CRITERIA

- *Overall protection of human health and the environment* determines whether an alternative can adequately protect human health and the environment, in both the short- and long-term, from unacceptable risks posed by hazardous substances present at the sites.

- *Compliance with Applicable or Relevant and Appropriate Requirements ("ARARS")* evaluates whether the alternative attains Federal and State environmental statutes, regulations, and other requirements that pertain to the Site.

PRIMARY BALANCING CRITERIA

- *Long-term Effectiveness and Permanence* considers the ability of an alternative to maintain protection of human health and the environment over time.

- *Reduction of Toxicity, Mobility, or Volume of Contaminants through Treatment* evaluates an alternative's use of treatment to reduce the harmful effects of contaminants, reduce their ability to move in the environment, and reduce the amount of contamination present.

- *Short-term Effectiveness* considers the length of time needed to implement an alternative and the risks the alternative poses to workers, residents, and the environment during implementation.

- *Implementability* considers the ease or difficulty of implementing an alternative and includes, among other things, technical feasibility, administrative feasibility, and availability of services and materials.

- *Cost* includes estimated capital and operation and maintenance costs expressed as present worth costs. Present worth cost is the total cost of an alternative over time in today's dollars.

MODIFYING CRITERIA

- *State Acceptance* considers whether the State concurs with, opposes, or has no comment on the Selected Remedies.

- *Community Acceptance* considers whether the community agrees with the Selected Remedies. This is assessed in detail in the ROD responsiveness summary (attached), which addresses public comments received on the Proposed Plan.

8.1 COMPARATIVE ANALYSIS OF ALTERNATIVES

This section presents the results of comparative analyses of remedial alternatives for sites where further control of contamination is required.

Eleven of the subject sites (Sites 3, 6, 12, 17, 20, 24, 25, 26, 35, 40 and 42) have undergone interim removal actions. Eight of these sites (Sites 3, 20, 24, 25, 26, 35, 40 and 42) have been adequately mitigated to protect human health and the environment and require no further remediation. To ensure permanence, three removal action sites (Sites 6, 12, and 17) require land use restrictions, implemented by institutional controls (ICs). Remedial alternatives were evaluated for Site 19 with the ICs Alternative as the selected alternative. Sites 22, 23, and 30 did not show evidence of contamination caused by Air Force activities and do not require mitigation.

8.1.1 Site 6 Comparative Analysis of Alternatives

A comparative analysis was completed using the alternatives and criteria previously identified. The alternatives are:

- No Action; and

- ICs Alternative.

Overall Protection of Human Health and the Environment. The No Action Alternative would not provide for control of future risks by preventing exposure to landfill wastes or protect the engineered waste cells cap from damage by either human or natural causes. The ICs Alternative (i.e., land use restrictions) will prevent exposures by precluding any use of the site except as passive open space. There are no known residual wastes that present unacceptable risks on Site 6 outside of the engineered waste cells.

Compliance With ARARs. ARARs do not need to be addressed under the No Action Alternative. The ICs Alternative would comply with ARARs (Appendix C, Table C-1).

Long-term Effectiveness and Permanence. The No Action and ICs Alternatives provide no reduction in risk since contaminants are not actively removed. The No Action Alternative would not ensure the long-term effectiveness and permanence of the controls currently in place for the engineered waste cells at Site 6. The ICs Alternative long-term protects human health by restricting groundwater and land use, and provides controls to ensure the waste remains within the waste cells. Maintenance of the institutional controls under the ICs Alternative would ensure long-term effectiveness and permanence. The tools that will be used to ensure the long-term effectiveness of the institutional controls include monitoring for the statutorily required 5-year review, and the use of overlapping mechanisms to establish the controls and education of the stakeholders (property owners and the community). The waste cells were installed as part of a removal action and maintenance of the waste cells is being conducted under the approved Operation and Maintenance Work Plan (Tetra Tech, Inc and Black & Veatch, 1999). The active components of this alternative provides long-term effectiveness by ensuring the waste remains within the waste cells through maintenance of the waste cells.

Reduction of Toxicity, Mobility, or Volume Through Treatment. The No Action and ICs Alternatives do not actively reduce the toxicity, mobility or volume of contaminants. At Site 6, there are no known residual contaminants outside of the engineered waste cells that would cause risk to human health or the environment. The wastes placed within the waste cells were not hazardous wastes as defined by State or Federal regulations.

Short-term Effectiveness. The No Action and ICs Alternatives do not pose a risk to workers, residents, and the environment during implementation. It is estimated that approximately 6 months will be required to implement the IC Alternative.

Implementability. The No Action and ICs Alternatives are easy to implement. Use restrictions will be placed on property use to limit the exposure of individuals to residual contamination. Under the ICs Alternative, use restrictions will be placed on property use to either protect the integrity of the engineering/technical control and/or to limit the exposure of individuals to residual contamination. These use restrictions will be established using institutional controls, which are described in Sections 7 and 9. A layering strategy, which identifies and combines mutually reinforcing controls, is being used by the Air Force including: combinations of use restrictions in deeds, zoning maps, physical barriers, notices to the community, local permit systems, community master plans, and airport layout plans.

Cost. No Action is a no-cost alternative. The estimated annual cost for the ICs Alternative is $20,000 and includes monitoring, maintaining, notification, inspection and reporting of the institutional controls. The cost of landfill operation and maintenance (cap maintenance, groundwater monitoring, leachate collection/disposal, and reporting) is not included in the IC alternative. These existing, ongoing costs are estimated at $50,000 per year.

State Acceptance. The State of California was actively involved in the OU2 RI/FS and remedy selection process and participated in the public meetings held to inform the public of the Proposed Plan. While the State concurs with the OU2 RI/FS, final acceptance will occur with the concurrence of this AFRPA OU2 ROD.

Community Acceptance. The public comment period for the 2000 OU2 Proposed Plan was from August 23 through September 22, 2000. In addition, a public meeting was held on September 13, 2000. Representatives of the Air Force, EPA, and DTSC attended the public meeting to address questions concerning the OU2 RI/FS and 2000 OU2 Proposed Plan. A Responsiveness Summary is included as Appendix A.

8.1.2 Site 12 Comparative Analysis of Alternatives

A comparative analysis was completed using the alternatives and criteria previously identified. The alternatives are:

- No Action; and

- ICs Alternative.

Overall Protection of Human Health and the Environment. The No Action Alternative would not protect human health. Exposure by direct contact, ingestion and inhalation of dust particles would remain at current levels because the site would remain unprotected. Future residents and workers would remain at risk. The ICs Alternative will protect human health by limiting use of groundwater and preventing exposure to contaminated soil. Future land use will be restricted to non-residential uses. These actions would control risk by preventing exposures to the residual contamination.

Compliance With ARARs. ARARs do not need to be addressed under the No Action Alternative. The ICs Alternative would comply with ARARs (Appendix C).

Long-term Effectiveness and Permanence. The No Action and ICs Alternatives provide no active reduction in risk since residual contamination is not removed. The No Action Alternative would not ensure the long-term effectiveness and permanence. The ICs Alternative protects human health by restricting groundwater use and land use. Maintenance of the institutional controls under the ICs Alternative would ensure long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume Through Treatment. The No Action and ICs Alternatives do not actively reduce the toxicity, mobility or volume of contaminants in the groundwater or soil. Some contaminants may decrease in concentration with natural attenuation.

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Short-term Effectiveness. The No Action and ICs Alternatives do not pose a risk to workers, residents, and the environment during implementation. It is estimated approximately 6 months will be required to implement the IC Alternative.

Implementability. The No Action and ICs Alternatives are easy to implement. Use restrictions will be placed on property use to limit the exposure of individuals to residual contamination. These use restrictions will be established using institutional controls: legal, governmental and administrative methods. A layering strategy which identifies and combines mutually reinforcing controls is being used by the Air Force including: combinations of use restrictions in deeds, zoning maps, physical barriers, notices to the community, local permit systems, community master plans, and airport layout plans.

Cost. No Action is a no-cost alternative. The estimated annual cost for the ICs Alternative is $6,000 and includes monitoring, maintaining, notification, inspection and reporting of the institutional controls.

State Acceptance. The State of California was actively involved in the OU2 RI/FS and remedy selection process and participated in the public meetings held to inform the public of the Proposed Plan. While the State concurs with the OU2 RI/FS, final acceptance will occur with the concurrence of this AFRPA OU2 ROD.

Community Acceptance. The public comment period for the 2000 OU2 Proposed Plan was from August 23 through September 22, 2000. In addition, a public meeting was held on September 13, 2000. Representatives of the Air Force, EPA, and DTSC attended the public meeting to address questions concerning the OU2 RI/FS and 2000 OU2 Proposed Plan. A Responsiveness Summary is included as Appendix A.

8.1.3   Site 17 Comparative Analysis of Alternatives

A comparative analysis was completed using the alternatives and criteria previously identified. The alternatives are:

- No Action; and

- ICs Alternative.

Overall Protection of Human Health and the Environment. The No Action and ICs Alternatives will not actively reduce the risk posed by contaminated soil. The No Action Alternative would not protect human health. Exposure by direct contact, ingestion and inhalation of dust particles would remain at current levels because the site would remain unprotected. Future construction workers would remain at risk. The ICs Alternative will protect human health by preventing exposure to contaminated soil protecting human health. Future land use will be restricted. These actions would control risk by preventing exposures to the residual contamination.

Compliance With ARARs. ARARs do not need to be addressed under the No Action Alternative. The ICs Alternative would comply with ARARs (Appendix C).

Long-term Effectiveness and Permanence. The No Action and ICs Alternatives provide no active reduction in risk since contaminants are not removed. The No Action Alternative would not ensure the long-term effectiveness and permanence. The ICs Alternative provides long-term protection of human health by restricting land use. Maintenance of the institutional controls under the ICs Alternative would ensure long-term effectiveness and permanence. The tools that will be used to ensure the long-term effectiveness of the institutional controls include monitoring for the statutorily required 5-year review and the use of overlapping mechanisms to establish the controls and education of the stakeholders (property owners and the community).

Reduction of Toxicity, Mobility, or Volume Through Treatment. The No Action and ICs Alternatives do not actively reduce the toxicity, mobility or volume of contaminants in the soil. However, PCBs are not mobile contaminants and are not expected to migrate.

Short-term Effectiveness. The No Action and ICs Alternatives do not pose a risk to workers, residents, and the environment during implementation. It is estimated that approximately 6 months will be required to implement the IC Alternative.

Implementability. The No Action and ICs Alternatives are easy to implement. Use restrictions will be placed on property use to limit the exposure of individuals to residual contamination. Use restrictions will be placed on property use to limit the exposure of individuals to residual contamination. These use restrictions will be established using institutional controls: legal, governmental and administrative methods. A layering strategy, which identifies and combines mutually reinforcing controls, is being used by the Air Force including: combinations of use restrictions in deeds, zoning maps, physical barriers, notices to the community, local permit systems, community master plans, and airport layout plans.

Cost. No Action is a no-cost alternative. The estimated annual cost for the ICs Alternative is $6,000 and includes monitoring, maintaining, notification, inspection and reporting of the institutional controls.

State Acceptance. The State of California was actively involved in the OU2 RI/FS and remedy selection process and participated in the public meetings held to inform the public of the Proposed Plan. While the State concurs with the OU2 RI/FS, final acceptance will occur with the concurrence of this AFRPA OU2 ROD.

Community Acceptance. The public comment period for the 2000 OU2 Proposed Plan was from August 23 through September 22, 2000. In addition, a public meeting was held on September 13, 2000. Representatives of the Air Force, EPA, and DTSC attended the public meeting to address questions concerning the OU2 RI/FS and 2000 OU2 Proposed Plan. A Responsiveness Summary is included as Appendix A.

8.1.4   Site 19 Comparative Analysis of Alternatives.

A comparative analysis was completed of applicable alternatives against the selection criteria described above. The evaluated alternatives for cleanup of surface and near-surface soils are:

- No Action;

- ICs Alternative;

- Excavation and Off-Base Disposal; and

- Excavation and Off-Base Incineration.

Overall Protection of Human Health and the Environment. The No Action Alternative would not protect human health. Chances of ingestion and inhalation of dust particles would remain because the soil surface would remain unprotected. Construction workers and potential future residents would be at risk. The ICs Alternative will provide protection of human health and the environment, because no use of the property is allowed.

The excavation and off-Base disposal or incineration alternatives would provide adequate protection of human health and the environment by removing the source. No treatment would take place with landfill disposal, but the elimination of the source would reduce the risk to future site receptors through inhalation or ingestion of dust particles at the site. Excavation and treatment by incineration would reduce risks by destruction of contaminants.

Compliance with ARARs. ARARs do not need to be addressed under the No Action Alternative. The ICs Alternative would comply with the ARARs (Appendix C).

Long-term Effectiveness and Permanence. The No Action Alternative does not provide a mechanism to prevent direct access to contaminated soils and will not provide long-term effectiveness and permanence of risk reduction. The ICs Alternative would restrict land use. Access controls are already in place and would be maintained under the ICs Alternative. Maintenance of all institutional controls under the ICs Alternative would provide long-term effectiveness and permanence. Excavation and ex-situ alternatives would eliminate the risk of human exposure by removing the soil to an off-Base landfill or destroy contaminants by incineration. Both excavation and disposal off the Base or incineration provide long-term effectiveness and permanence of risk reduction at the site. The tools that will be used to ensure the long-term effectiveness of the institutional controls include monitoring for the statutorily required 5-year review, and the use of overlapping mechanisms to establish the controls and education of the stakeholders (property owners and the community).

Reduction of Toxicity, Mobility, and Volume Through Treatment. The No Action and ICs Alternatives would provide no reduction of toxicity, mobility, or volume through treatment because no treatment system would be implemented at the site. Off-Base landfilling would reduce the mobility of the contaminants at Site 19 by removing the contaminants from the site and placing them in an engineered landfill. No contaminated soil would remain on the site reducing contaminant toxicity and volume at the site. This alternative, however, would not include any treatment of the contaminants. Incineration would reduce the toxicity, mobility, and volume of contaminants.

Short-term Effectiveness. The No Action and ICs Alternatives would not present short-term risk to workers because no excavation or treatment would be implemented for these alternatives. It is estimated that approximately 6 months will be required to implement the IC Alternative. In the Excavation and Off-Base Disposal or Incineration Alternatives, worker protection during excavation, transportation and treatment poses a minor concern. Engineering controls can be used for worker protection (i.e., dust suppression, hearing protection) and therefore, the short-term risks are judged to be controllable. Community risks presented as a result of the transportation of the soils either on-Base or off-Base, are considered negligible. Incineration presents a risk of contaminated air emissions; however, these can be controlled. Excavation and Off-Base Disposal or Incineration Alternatives are estimated to require one year for implementation.

Implementability. The No Action and ICs Alternatives are easily implemented. Use restrictions will be placed on property use to either protect the integrity of the engineering/technical control and/or to limit the exposure of individuals to residual contamination. These use restrictions will be established using institutional controls: legal, governmental and administrative methods. A layering strategy, which identifies and combines mutually reinforcing controls, is being used by the Air Force including: combinations of use restrictions in deeds, zoning maps, physical barriers, notices to the community, local permit systems, community master plans, and airport layout plans.

Excavation and off-site incineration would involve excavation and backfilling. Permitted off-Base Class II landfills and incinerators are available. No sophisticated equipment or materials would be needed to implement the Off-Base Disposal Alternative. Construction and safety procedures would be simple, and a number of experienced contractors are available who could perform this type of work. Construction delays would be unlikely. Use of an off-Base incinerator would require trial burns.

Cost. The No Action and ICs Alternatives are very cost effective, with no cost for No Action and an estimated annual cost of $7,000 for the ICs Alternative. The costs for the ICs Alternative include monitoring, maintaining, notification, inspection and reporting of the institutional controls. Excavation and Off-Base Incineration is the highest cost alternative, at $3,772,800, with Excavation and Off-Base Disposal only slightly less expensive, at $3,402,700. These costs would be one-time only costs.

State Acceptance. The State of California was actively involved in the OU2 RI/FS and remedy selection process and participated in the public meeting held to inform the public of the Proposed Plan. While the State concurs with the recommendations in OU2 RI/FS, final State acceptance will occur with the concurrence of this AFRPA OU2 ROD.

Community Acceptance. The public comment period for the 2000 OU2 Proposed Plan was from August 22 through September 22, 2000. In addition, a public meeting was held on September 13, 2000. Representatives of the Air Force, EPA, and DTSC attended the public meeting to address questions concerning the OU2 RI/FS and 2000 OU2 Proposed Plan. A Responsiveness Summary is included as Appendix A.

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DECISION SUMMARY:
9.0 - SELECTED REMEDIES

9.0 SELECTED REMEDIES

Selected groundwater and soil remedies will limit exposures or meet the cleanup standards. The selected remedial alternative for the sites requiring action is the ICs Alternative. In addition, the operations, maintenance, and monitoring of the engineered waste cells at Site 6 and groundwater monitoring at Site 12 will continue. The ICs will limit exposure of contaminants to future landowner(s) and/or user(s) and to maintain the integrity of the existing engineering controls.

Descriptions of the required actions and restrictions on activities for Sites 6, 12, 17 and 19 are provided in site-specific discussions below and in Section 7 of this ROD. The required actions and restrictions are intended to apply to affected areas, not necessarily to the entire sites as originally defined in the feasibility study. Affected areas are areas where hazardous substances remain at levels that make the property unsuitable for unrestricted use. Legal descriptions of the affected areas and monitoring well locations associated with Sites 6 and 12 will be included in deeds or letters of transfer for each parcel. Survey of monitoring well locations and settlement monuments for purposes of identifying their locations in the deed and State land use covenant will occur prior to property transfer. Except for restrictions related to groundwater extraction and use, that portion of the property that is not within the affected area will not be restricted or otherwise constrained by institutional controls. The groundwater use prohibition applies to the entirety of the parcels containing Site 6 and Site 12.

The following sites at March AFB will be restricted by ICs. The indented language in Sections 9.1, 9.2, 9.3, and 9.4 ("Restrictions") will be in incorporated into (a) each deed transferring all or any part of any of the listed sites from the Air Force to a non-federal entity and a state land use covenant to be recorded in the land records of the County of Riverside prior to recording of the deed, or (b) the base management plan (or equivalent document) of any federal entity that accepts all or any part of one of the sites from the Air Force.

9.1   SELECTED REMEDY FOR SITE 6 - LANDFILL NO. 4

At Site 6, contamination, consisting of non-hazardous wastes from old landfills is consolidated in engineered waste cells in accordance with the final *Closure/Post Closure Maintenance Plan, Site 6, OU 2 March Air Force Base*, May 1995 and the *Final Closure/Post Closure Maintenance plan, Site 6, OU-2, Cell B Expansion, March Air Force Base*, September 1995. Site use, access, and activity restrictions will protect the cover and associated drainage and monitoring systems of the engineered waste cells of this consolidated, non-hazardous waste landfill. Hazardous substance contamination found at the site before construction of the engineered waste cells was removed and disposed of before construction. The use, access, and activity restrictions will protect persons from exposure to the wastes in the engineered cells. A prohibition on the extraction and use of groundwater under the Property will prevent exposure to contaminated groundwater.

The ICs Alternative is the selected remedy for Site 6. Land use restrictions will be incorporated in the deed as grantee covenants. In the State Land Use covenant, the restrictions will be expressed in a different format, but they will be consistent with the grantee covenants in the deed. As presented in Section 7.2.1, this remedy adds ICs to the continuing operations, maintenance and monitoring of the Site 6 landfill as specified in the existing, regulatory approved O&M Plan (Tetra Tech, Inc and Black & Veatch, 1999). The selected remedy is consistent with the anticipated future land use for Site 6 as passive open space (March JPA, 2003).

- Grantee covenants and agrees that it will not use Site 6 for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

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- Grantee covenants and agrees that it will not conduct or allow others to conduct any construction, excavation, drilling, grading, removal, trenching, filling earth movement, mining, and planting that would disturb the soil or the landfill cover, including the vegetative cap, or the injection or release of water or other fluids except for the purpose of monitoring groundwater or landfill gas.

- Grantee covenants and agrees that it will not extract groundwater from the property for any purpose other than monitoring.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would cause disturbance or removal of fencing or signs intended to exclude the public from the landfill.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would cause the surface application of water (e.g. irrigation) to the extent that the integrity of the landfill is impacted and injection of water or other fluids that might affect groundwater flow direction.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would cause disturbance of any landfill equipment or systems, including the leachate collection system, the groundwater monitoring systems, and settlement monuments; or that could affect the drainage, sub-drainage, or erosion controls for the landfill cover.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that limit access to any landfill equipment and systems, including the leachate collection system, the groundwater monitoring systems, settlement monuments, or the drainage, sub-drainage, or erosion controls for the landfill cover.

9.2   SELECTED REMEDY FOR SITE 12 - CIVIL ENGINEERING YARD

At Site 12, residual petroleum hydrocarbon contamination remains near a washbasin. Confirmation sampling demonstrated that the metals cadmium and chromium were removed to below Industrial PRGs, but remain above Residential PRGs. However, the risk was found to be within the risk range identified in the NCP and no use restrictions are required. Restrictions on construction and other activities will reduce the risk of destruction of, or limitation on access to, groundwater monitoring wells on the site. A prohibition on the extraction and use of groundwater under the Property will prevent potential exposure to contaminated groundwater. No ICs are required for the petroleum hydrocarbon contamination, because the contamination levels are acceptable for unrestricted use.

The ICs Alternative is the selected remedy for Site 12. Land use restrictions will be incorporated into the letter of transfer to another federal agency as conditions of the transfer or in the deed to a non-federal entity as grantee covenants in the form below. In the State Land Use covenant, the restrictions will be expressed in a different format, but they will be consistent with the grantee covenants in the deed. As presented in section 7.2.2, groundwater monitoring at Site 12 will continue as specified in the "Quality Program Plan - Long-Term Groundwater Monitoring, Long-Term Operation, and Long-Term Operation and Maintenance Programs, March ARB, California" (September 2000), as amended and supplemented. The selected remedy is consistent with the anticipated future land use for Site 12 as mixed use (March JPA, 1999).

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would cause disturbance of any equipment or systems associated with groundwater monitoring.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would limit access to any equipment or systems associated with groundwater monitoring.

- Grantee covenants and agrees that it will not extract groundwater from the property for any purpose other than monitoring.

9.3 SELECTED REMEDY FOR SITE 17 - SWIMMING POOL FILL

At Site 17, low levels of PCBs are present in soils at least 8 feet beneath the ground surface. No PCB contamination has been found in the groundwater. A prohibition on use of the property for residential, school, day care, or hospital use will reduce to acceptable levels human exposure to the low-level, residual contamination from PCBs that were previously disposed of in an abandoned swimming pool on the site. The pool and all but some low-level residual soil contamination were excavated and disposed of in a previous removal action. A prohibition against drilling or excavation more than 7 feet below current ground surface will prevent possible on-site exposure or off-site migration of the contaminated soils.

The ICs Alternative is the selected remedy for Site 17. Land use restrictions will be incorporated in the deed as grantee covenants. In the State Land Use Covenant, the restrictions will be expressed in a different format, but they will be consistent with the grantee covenants in the deed. As presented in Section 7.2.3, the selected remedy is consistent with the anticipated future land use for Site 17 as part of the Green Acres Historic District (March JPA, 1999).

- Grantee covenants and agrees that it will not use Site 17 for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

- Grantee covenants and agrees that it will not conduct or allow others to conduct any activity that will disturb the soil at or below 7 feet below ground surface

9.4 SELECTED REMEDY FOR SITE 19 - WEST MARCH SLUDGE DRYING BEDS

In the past at Site 19, sludge from the wastewater treatment facility was spread in unlined drying beds. Surface and near-surface soils contaminated with PAHs, PCBs, hexavalent chromium, and thallium were found sporadically throughout the site. A prohibition on use of the property for residential, school, day care, or hospital use and restrictions on soil disturbance activities during any future construction will prevent unacceptable levels of human exposure to the low-level, residual contamination.

The ICs Alternative is the selected remedy for Site 19. Land use restrictions will be incorporated in the deed as grantee covenants. In the State Land Use Covenant, the restrictions will be expressed in a different format, but they will be consistent with the grantee covenants in the deed. As presented in Section 7.2.4, the selected remedy is consistent with the anticipated future land use for the parcel surrounding Site 19 as a wastewater treatment plant (March JPA, 2003).

- Grantee covenants and agrees that it will not use Site 19 for residential purposes, hospitals for human care, public or private schools for persons under 18 years of age, or day care centers for children.

- Grantee covenants and agrees that it will not conduct or allow others to conduct any activity that would disturb the soil in the former sludge drying pits.

- Grantee covenants and agrees that it will not conduct or allow others to conduct activities that would result in removal, disturbance, or other interference with fences or other barriers to access to or signs notifying the public of Site 19.

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DECISION SUMMARY:
10.0 - STATUTORY DETERMINATIONS

10.0 STATUTORY DETERMINATIONS

Under the authority delegated to it by Executive Order 12580, the Air Force is selecting remedial actions at theses sites with the concurrence of EPA and the State, that achieve adequate protection of human health and the environment. Under CERCLA §121 and the NCP, the lead agency must select remedies that are protective of human health and the environment, comply with applicable or relevant and appropriate requirements (unless a statutory waiver is justified), are cost-effective, and utilize permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable. In addition, CERCLA includes a preference for remedies that employ treatment that permanently and significantly reduces the volume, toxicity, or mobility of hazardous wastes as a principal element and a bias against off-site disposal of untreated wastes. The following sections discuss how the selected remedies meet these statutory requirements.

10.1 SITE 6 SOIL AND GROUNDWATER - ICs ALTERNATIVE

Protection of Human Health and the Environment. The selected remedy protects human health and the environment prohibiting activities which would interfere with the integrity of the cap, limiting exposure to materials contained within the engineered waste cells, maintaining the waste cells and associated systems, and monitoring for potential releases from the engineered waste cells as discussed in Section 9.0. Principal threats identified during the OU2 RI were addressed in the removal action. The IC/land use restrictions will protect the waste containment system (cap and liner), which limit the threat of exposure via direct contact and ingestion. Monitoring will be conducted to detect any migration from the engineered waste cells. Until land transfer, the AFRPA will continue to enforce procedures for protection of the site and perform any required on-going maintenance. The Federal deed(s) will retain a right of access for the Air Force, USEPA, and the State for monitoring, maintenance and inspection of the remedy, and any necessary environmental investigations.

Compliance with Applicable or Relevant and Appropriate Requirements. The selected remedy complies with all ARARs (refer to Appendix C).

Cost Effectiveness. In the judgment of the Air Force, the selected remedy is cost-effective and represents a reasonable value for the money to be spent. In making this determination, the following definition was used: "A remedy shall be cost-effective if its costs are proportional to its overall effectiveness." (NCP §300.430(f)(1)(ii)(D)). This was accomplished by evaluating the "overall effectiveness" of those alternatives that satisfied the threshold criteria of protectiveness of human health and the environment and compliance with ARARs. Overall effectiveness was evaluated by assessing, in combination, long-term effectiveness and permanence; reduction in toxicity, mobility, and volume through treatment; and short-term effectiveness. Overall effectiveness was then compared to costs to determine cost-effectiveness. The relationship of the overall effectiveness of this remedial alternative was determined to be proportional to its costs and thus this alternative represents a reasonable value for the money to be spent. The estimated annual cost of ICs and State Land Use Covenant (SLUC) shows the ICs Alternative is a cost-effective method of protecting the engineered waste cells and controlling exposures at Site 6.

Utilization of Permanent Solutions and Alternative Treatment Technologies (for Resource Recovery Technologies) to the Maximum Extent Practicable. The selected remedy does not utilize permanent solutions or alternative treatment technologies, but appropriately balances those considerations with relative costs and other relevant criteria.

The selected remedy achieves the objectives of protecting the engineered waste cells and limiting exposures to levels protective of human health, while allowing the possibility of some future use. The selected remedy satisfies the long-term effectiveness criteria by limiting exposures to the waste and restricting groundwater use. The selected remedy does not present short-term risks and there are no implementability issues.

Preference for Treatment as a Principal Element. The selected remedy does not satisfy the statutory preference for remedies that employ treatment as a principal element. The wastes in the engineered waste cells cannot be practicably removed and treated. Therefore, limiting exposures by ICs and a SLUC is appropriate.

Five-Year Review Requirements. Because the remedy will result in maintaining the engineered waste cells in a manner to prevent migration and exposures, a statutory review of this site will be conducted as part of the ongoing CERCLA five-year reviews to ensure that the remedy remains protective of human health and the environment.

10.2 SITE 12 SOIL AND GROUNDWATER - ICs ALTERNATIVE

Protection of Human Health and the Environment. The selected remedy protects human health and the environment by limiting exposure to residual contamination by the method discussed in Section 9.0. Principal threats identified during the OU2 RI were addressed in the removal action. The controls on land and groundwater use will limit the threat of exposure via direct contact or ingestion. As an active component of the remedy, groundwater monitoring will be conducted to evaluate the migration and concentration of the contaminants in groundwater. Until land transfer, the AFRPA will continue to enforce procedures for protection of the site and perform any required ongoing maintenance. The Federal deed(s) will retain a right of access for the Air Force, EPA, and the State for monitoring, maintenance and inspection of the remedy, and any necessary environmental investigations.

Compliance with Applicable or Relevant and Appropriate Requirements. The selected remedy will comply with all ARARs (refer to Appendix C).

Cost Effectiveness. In the judgment of the Air Force, the selected remedy is cost-effective and represents a reasonable value for the money to be spent. The method for this determination was as discussed in Section 10.1 above. The annual cost of ICs shows the ICs Alternative is a cost-effective method of controlling exposures at Site 12.

Utilization of Permanent Solutions and Alternative Treatment Technologies (for Resource Recovery Technologies) to the Maximum Extent Practicable. The selected remedy does not utilize permanent solutions or alternative treatment technologies, but appropriately balances those considerations with relative costs and other relevant criteria.

The selected remedy achieves the objective of limiting exposures to levels protective of human health while allowing commercial use of the site. The selected remedy satisfies the long-term effectiveness criteria by limiting exposures to contaminated soil and restricting groundwater use. The selected remedy does not present short-term risks and there are no implementability issues.

Preference for Treatment as a Principal Element. The selected remedy does not satisfy the statutory preference for remedies that employ treatment as a principal element. The residual contamination remaining after the removal action cannot be practicably removed and treated. Therefore, limiting exposures by ICs and SLUC is appropriate.

Five-Year Review Requirements. Because the remedy will result in soil and groundwater contamination remaining on the site above levels that allow for unlimited use and unrestricted exposure, a statutory review of this site will be conducted as part of the ongoing CERCLA five-year reviews to ensure that the remedy remains protective of human health and the environment.

10.3   SITE 17 SUBSURFACE SOILS - ICs ALTERNATIVE

Protection of Human Health and the Environment. The selected remedy protects human health and the environment by limiting exposure to residual contamination by the method discussed in Section 9.0. Principal threats identified during the OU2 RI were addressed in the removal action. The controls on land use will limit the threat of exposure via direct contact or ingestion. Until land transfer, the AFRPA will continue to enforce procedures for protection of the site. The Federal deed(s) will retain a right of access for the Air Force, EPA, and the State for monitoring, maintenance and inspection of the remedy, and any necessary environmental investigations.

Compliance with Applicable or Relevant and Appropriate Requirements. The selected remedy will comply with all ARARs (refer to Appendix C).

Cost Effectiveness. In the judgment of the Air Force, the selected remedy is cost-effective and represents a reasonable value for the money to be spent. The method for this determination was as discussed in Section 10.1 above. The annual cost of ICs and SLUC shows the ICs Alternative is a cost-effective method of controlling exposures at Site 17.

Utilization of Permanent Solutions and Alternative Treatment Technologies (for Resource Recovery Technologies) to the Maximum Extent Practicable. The selected remedy does not utilize permanent solutions or alternative treatment technologies, but appropriately balances those considerations with relative costs and other relevant criteria.

The selected remedy achieves the objective of limiting exposures to levels protective of human health while allowing some use of the site. The selected remedy satisfies the long-term effectiveness criteria by limiting exposures to contaminated soils. The selected remedy does not present short-term risks and there are no implementability issues.

Preference for Treatment as a Principal Element. The selected remedy does not satisfy the statutory preference for remedies that employ treatment as a principal element. The residual contamination remaining after the removal action cannot be practicably removed and treated. Therefore, limiting exposures by ICs and SLUC is appropriate.

Five-Year Review Requirements. Because the remedy will result in soil contamination remaining on the site above levels that allow for unlimited use and unrestricted exposure, a statutory review of this site will be conducted as part of the ongoing CERCLA five-year reviews to ensure that the remedy remains protective of human health and the environment.

10.4   SITE 19 SURFACE AND NEAR-SURFACE SOILS - ICs ALTERNATIVE

Protection of Human Health and the Environment. The selected remedy protects human health and the environment by limiting exposure to soil contamination by the method discussed in Section 9.0. The controls on land use and site access will limit the threat of exposure via direct contact or ingestion. Until land transfer, the AFRPA will continue to enforce procedures for protection of the site. The Federal deed(s) will retain a right of access for the Air Force, EPA, and the State for monitoring, maintenance and inspection of the remedy, and any necessary environmental investigations.

Compliance with Applicable or Relevant and Appropriate Requirements. The selected remedy will comply with all ARARs (refer to Appendix C).

Cost Effectiveness. In the judgment of the Air Force, the selected remedy is cost-effective and represents a reasonable value for the money to be spent. The annual cost of ICs and LUC shows the ICs Alternative is a cost-effective method of controlling exposures at Site 19. The Excavation and Off-Base Disposal and Excavation and Off-Base Incineration Alternatives, which are significantly more expensive (each over three million dollars) than the ICs and SLUC, would allow unrestricted use of the site. However, with the expected future use as a public wastewater treatment facility, the additional expense would not return a reasonable value for the money spent. The method for this determination was as discussed in Section 10.1 above.

Utilization of Permanent Solutions and Alternative Treatment Technologies (for Resource Recovery Technologies) to the Maximum Extent Practicable. The selected remedy does not utilize permanent solutions or alternative treatment technologies, but appropriately balances those considerations with relative costs and other relevant criteria.

The selected remedy achieves the objective of limiting exposures to levels protective of human health while allowing use of the site as a public wastewater treatment facility. The selected remedy satisfies the long-term effectiveness criteria by limiting exposures to contaminated soils. The selected remedy does not present short-term risks and there are no implementability issues. The Excavation and Off-Base Disposal and Excavation and Off-Base Incineration Alternatives would provide a permanent solution, but costs are significant.

Preference for Treatment as a Principal Element. The selected remedy does not satisfy the statutory preference for remedies that employ treatment as a principal element. Removal of soil and treatment or disposal off-Base cannot be performed in a cost-effective manner. Therefore, limiting exposures by ICs and SLUC is appropriate.

Five-Year Review Requirements. Because the remedy will result in soil contamination remaining on the site above levels that allow for unlimited use and unrestricted exposure, a statutory review of this site will be conducted as part of the ongoing CERCLA five-year reviews to ensure that the remedy remains protective of human health and the environment.

DECISION SUMMARY:
REFERENCES

REFERENCES

AFRPA/DD-March

2000　Letter from Mary Bridgewater, Regional BRAC Environmental Coordinator, to Melissa Pennington, US EPA Region 9, August 23, 2000.

The Earth Technology Corporation

2000　*Draft Final Site 42 Treatability Study Report.* Prepared by Earth Tech, Inc. for USAF Air Mobility Command, Scott AFB, Illinois.

IT Corporation

1996　*Removal of Wastes at Site 26, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997a　*Removal of Wastes at Site 6c and 6d, OU2a, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997b　*Removal of Wastes at Site 3, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997c　*As-Built Construction Report, OU2, Site 6a, March Air Force Base.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997d　*Removal of Wastes at Site 6b' and 6b (Quarry), OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska

1997e　*Removal of Wastes at Site 12, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997f　*Removal of Wastes at Site 20/26B, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997g　*Removal of Wastes at Site 24, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997h　*Site 25 Closure Report, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

1997i　*Removal of Wastes at Site 26A, OU2, March Air Force Base Closure Report.* Prepared by IT Corporation for the U.S. Army Corps of Engineers, Omaha, Nebraska.

OHM Remediation Services Corporation

1995　*Final Report Time Critical Removal Action-Site 40 at March Air Force Base California.* Prepared for U.S. Army Corps of Engineers, Omaha, Nebraska.

1996　*Draft Field Summary Report-Remedial Action at Installation Restoration Program Site 30, March Air Force Base, Riverside, California.* Prepared for Air Force Center for Environmental Excellence, Brooks AFB, Texas.

Parsons Engineering Science

  1997   *Draft Site Closure Report, IRP Site 35c Former Diesel UST Site.* Prepared for Air Force Center for Environmental Excellence Technology Transfer Division, Brooks Air Force Base, Texas. Prepared for U.S. Army Corps of Engineers, Sacramento, California.

Tetra Tech, Inc.

  1994   *Summary of Subsurface Investigation and Removal Action for March Air Force Base Operable Unit 2 Site 17.* Prepared for U.S. Army Corps of Engineers, Sacramento, California.

  1997a   *Operable Unit 2, Remedial Investigation/Feasibility Study.* Prepared for Air Force Center for Environmental Excellence, Brooks Air Force Base, Texas.

  1997b   *Trend Analysis.* Prepared for Headquarters Strategic Air Command, Environmental Compliance Division, Offutt Air Force Base, Nebraska.

U.S. EPA

  1991   *Risk Assessment Guidance for Superfund Volume 1, Part B: Development of Risk-Based Preliminary Remediation Goals.*

  1997   Ecological Risk Assessment Guidance

  1999   Region 9 Preliminary Remediation Goals.

APPENDIX A - RESPONSIVENESS SUMMARY

APPENDIX A - RESPONSIVENESS SUMMARY

Operable Unit 2 (OU2) Air Force Base Conversion Agency Sites
March Air Force Base, California

RESPONSIVENESS SUMMARY

RESPONSIVENESS SUMMARY 1997 PROPOSED PLAN
OVERVIEW

Air Force Base Conversion Agency Site at Operable Unit 2 (OU2) is a group of 15 sites on March Air Force Base, California. Initial investigation identified these 15 sites as possibly contaminated and requiring soil and/or groundwater cleanup. Further investigation revealed that four of the sites did not require cleanup. Of the sites found to require remediation, seven were cleaned up with removal actions during the Remedial Investigation/Feasibility Study (RI/FS) phase. The four remaining sites included one that required action for both soil and groundwater, one that requires protection of waste cells constructed during removal actions, and two that required action for only soil. Institutional controls will be implemented at these sites requiring action.

Judging from the comments made at the public hearing for the Proposed Plan, and at various Restoration Advisory Board (RAB) and other public meetings held throughout the course of the RI/FS, the community supports the chosen cleanup alternatives. The earlier removal actions, including the consolidation of several landfill sites into two new, sealed and capped waste cells (Site 6), have also been supported.

This Responsiveness Summary includes the following sections:

I.   Background on Community Involvement and Concerns
II.   Summary of Comments Received During the Public Comment Period and the Air Force Responses
      Comments from the California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and Air Force Responses
      Comments from the Public and Air Force Responses
III. Community Relations Activities at OU2

BACKGROUND ON COMMUNITY INVOLVEMENT AND CONCERNS

The investigations and various removal actions at OU2 sites have not generated any negative reaction from the community. Open houses, workshops, and public meetings were sparsely attended. Public comment periods for the Draft RI and FS, and for various Engineering Evaluations/Cost Analyses (EE/CAs) for removal actions, did not receive responses from the public. The RAB, which at one point met every month, was kept apprised of and discussed the ongoing investigations and planned cleanup activities. In addition, RAB subcommittees reviewed and reported on some of the cleanup documents, such as the EE/CAs. Although the discussion and questions demonstrated a keen interest in the cleanup, no objections were raised to the chosen remedial measures. The primary concern was March's ability to get funding for the cleanup--for the entire base, not just at OU2.

The only removal action that brought significant community response was the Site 6 landfill consolidation, which is adjacent to Air Force Village West (AFVW), a private residential community. This site was designated for reuse by the community as a recreational area. Some concerns were voiced about the height of the new cells and their visibility from the housing area. The Air Force response was that the area had been the site of three previously existing, open dumps, and the removal action restored it to a clean and usable condition. At a public meeting to discuss adding wastes from other IRP sites to one of the cells, the Executive Director of the Joint Powers Authority asked for additional fill material on top of the liner to allow the installation of light poles and parking lots. He also requested that the AFVW access road used by the construction vehicles be cleaned up to its original condition after the work was finished. The Air Force agreed to both requests.

RESPONSE TO COMMMENT FOR 2000 AFBCA OU2 PROPOSED PLAN

Comments from the public and Air Force Responses

Comment: I'm completely satisfied that this plan addresses all the issued of the community, specifically when you look at the statistics and the risk assessment Being a cancer survivor (hope to be), I can tell you that I've seen statistics much higher than this. These are not only acceptable risks, but to me, they're insignificant. Therefore, I'm in complete agreement with this particular plan.

Air Force Response: Thank you.

Comment: Regarding Site 6, Landfill 4, I would suggest another restriction on this site. That would be "use of the site for passive or active recreation is not recommended." In my experience there have been problems with redeveloping landfills as ballparks and picnic areas, with methane gas generation and collapsing soils, and there is also the possibility of some damage to the (landfill) cap. Since there is so much space available on the base, this landfill should have some restriction on it.

Air Force Response: There are restrictions on the landfill to control the recreational activities so as not to damage Site 6's engineered cap. For example, dirt bikes will not be allowed, but ball fields will. An additional three feet of soil were added to the landfill cap to allow for the ballfield use. The slope of the cap was also at a 3% slope to ensure cap drainage but yet allow the ball field usage. Methane is not a problem on Site 6, since the waste is so old. Computer modeling was done knowing the age of the waste; the results show that the methane generation is at a minimum. That is why a methane destruction system, a flare, was not built.

Comment: It (the Proposed Plan) has stated that access to the Site 6 landfill would be controlled. Is that permanent or only until some reuse of the site is considered?

Air Force Response: This is permanent control. This control is placed to restrict the recreational usage to allow only activities that do not damage the cap.

Comment: Was any landfill gas monitoring or venting deemed necessary for the Site 6 landfill? Is that or should it be an issue?

Air Force Response: Methane is not a problem on Site 6, since the waste is old. Computer modeling was done knowing the age of the waste; the results show that the methane generation is at a minimum. That is why a methane destruction system, a flare, was not built.

Comment: Is the Site 6 landfill in an area of rising groundwater? If so, is there a possibility of groundwater coming into contact with the base of the landfill in such a way as to break the (landfill) liner?

Air Force Response: The ground water level at Site 6 changes seasonally. Groundwater levels rise in wet seasons and fall when it is dry. A subdrain system was engineered beneath the Site 6 cells. The subdrain system piping is made of perforated piping underneath the bottom liner, which directs the ground water away from the liner and into the Van Buren ditch.

Comment: Concerning long-term monitoring at the Site 6 landfill by the Air Force, is there going to be a separate analysis of groundwater levels?

Air Force Response: There are a total of six ground water monitoring wells in the vicinity of Site 6. These wells are used to monitor the ground water levels in addition to monitoring for known non-hazardous contaminants in the land fill to ensure the integrity of the liner is still intact.

Comment: If there is any significant change in conditions at the Site 6 landfill, such as gas or groundwater, will the Air Force be responsible for additional actions or the new owner?

Air Force Response: The Air Force will be responsible unless the damage is due to the fault of the new owner.

Comment: Regarding Site 12, the Civil Engineering Yard, Site 17, swimming pool, and Site 19, sludge drying beds; is there any recommendation that these sites be paved, newly paved or repaved for future use as commercial or industrial sites?

Air Force Response: There is no environmental need for any of these sites to be paved.

Comment: If this is some kind of remediation, would the Air Force consider doing this or leave it to the new owner or operator of the sites to pave it over?

Air Force Response: There is no environmental need for any of these sites to be paved. The new owner can choose to pave over them.

Comment: Would the Air Force at least provide the minimal acreage at each site recommended to be paved and cost estimates for paving to give to a new user or owner of the site?

Air Force Response: Acreage has been provided in the Record of Decision.

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Comment: The work so far shows that the risks are acceptable for the uses proposed for these sites, but what if the risks are not acceptable to an adjacent potential operator or owner of a site?

Air Force Response: The use of adjacent sites was considered in the development of the restrictions.

Comment: Would the Air Force consider the development and use of buffer zones around some of these sites where there is still some contamination, cost to be negotiated between the Air Force and the new owners.

Air Force Response: The use of adjacent sites was considered in the development of the restrictions, therefore, buffer zones are not necessary. Only the sites themselves need to be restricted.

Comment: This whole report implies a new zoning scheme. There are some definitions proposed here, such as "unrestricted use." How is that defined? Does it mean residential, commercial/industrial?

Air Force Response: Unrestricted means the site could be used for any purpose including residential. There are no restrictions.

Comment: Does this land-use scheme jive with what the Joint Powers Authority in its Base Reuse Plan and Environmental Impact Report in 1997? How is this new information going to be coordinated with the overall land-use plan of the base?

Air Force Response: The land uses have been coordinated with the Joint Powers Authority. They understand the limitations on the restricted areas.

Comment: When are they planning on dealing with zoning issues?

Air Force Response: When they get ready to develop the property.

Comment: How does the taxpaying public make sure that the proper zoning is applied to these properties to assure public safety and how do we have a say in who the property ends up with?

Air Force Response: The Air Force has entered into Land Use Covenant with the State of California to ensure these restrictions are enforced. The use restrictions will be clearly stated in our deed(s), and will remain as a "cloud" in any future deed transfers.

Comment: We're discussing is the Proposed Plan; which contaminants were here, if and when they were removed; how will remaining hazards addressed and are they appropriately addressed by this particular plan. In my opinion, they are. Most zoning questions will be

addressed with those who will utilize the land later on when it's transferred with those restrictions assigned by the appropriate agencies. I'm sure that those agencies are not going to let anything go unless the public is safeguarded.

Air Force Response: You are correct. That is why we have the Institutional Controls and the Land Use Covenants. Zoning is actually the responsibility of your local community's zoning committee. However, the local zoning authority will be restricted by the covenants and restrictions carried in the deed.

Comment: I strongly recommend that some fashion of this same RAB committee exist as long as the property is being disposed of publicly, so we will make sure that it doesn't go in the wrong direction or anything harmful will happen to the community as a result of an oversight.

Air Force Response: We expect to support the continuation of a RAB until all property has been remediated to the transferable phase and properly deeded.

COMMUNITY RELATIONS ACTIVITIES AT OU2

I.   Letter to Orangecrest and Arnold Heights residential areas advising them of potentially hazardous materials in the newly discovered Site 40 landfill (January 1992)

II.   Press release announcing the discovery at Site 40 (January 1992)

III.   Press release announcing testing to be conducted at Site 40 (August 1992)

IV.   Environmental Visitor's Day including tours of two Superfund Innovative Technology Evaluation (SITE) programs, one of them in OU2 (June 1993)

V.   Public comment period for Sites 2, 17, and 36 EE/CAs (April-May 1994)

VI.   Open house for Sites 2, 17, and 36 (May 1994)

VII.   Workshop for Green Acres housing residents on proposed Site 17 action (May 1994)

VIII.   Open house for Site 40 proposed cleanup action (October 1994)

IX.   Public meeting on the planned removal action at Site 6 (January 1995)

X.   Public comment period for Draft OU2 Remedial Investigation (June-July 1995)

XI.   Public comment period for Draft OU2 Feasibility Study (July-August 1995)

XII.   Public comment period and public meeting for the draft site specific removal action memorandum for Site 6 (August-September 1995)

XIII.   Public comment period and public meeting for the modification to the site specific removal action memorandum for Site 6 (February-April 1996)

XIV.   Public comment period and public hearing for the Proposed Plan (September-October 1997)

XV.   Public comment period and public meeting for the Proposed Plan 2000 Fact Sheet (August - September 2000)

APPENDIX B - ADMINISTRATIVE RECORD INDEX

APPENDIX B – ADMINISTRATIVE RECORD INDEX

Document Date	AR Number	Title	Author
Apr-84	2	Phase I, Records Search Report	CH2M Hill
Sep-85	319	Phase II Stage 1, Technical Operations Plan	Engineering-Science, Inc.
Mar-87	8	Phase II Stage 1, Confirmation/Quantification Report, Vol I of III	Engineering-Science, Inc.
Mar-87	9	Phase II Stage 1, Confirmation/Quantification Report, Vol II of III	Engineering-Science, Inc.
Mar-87	10	Phase II Stage 1, Confirmation/Quantification Report, Vol III of III	Engineering-Science, Inc.
Apr-87	318	Phase II Stage 2, Technical Operations Plan	Engineering-Science, Inc.
Jun-88	15	Phase II Stage 2, Confirmation/Quantification Report, Vol I of V	Engineering-Science, Inc.
Jun-88	16	Phase II Stage 2, Confirmation/Quantification Report, Vol II of V	Engineering-Science, Inc.
Jun-88	17	Phase II Stage 2, Confirmation/Quantification Report, Vol III of V	Engineering-Science, Inc.
Jun-88	18	Phase II Stage 2, Confirmation/Quantification Report, Vol IV of V	Engineering-Science, Inc.
Jun-88	19	Phase II Stage 2, Confirmation/Quantification Report, Vol V of V	Engineering-Science, Inc.
Jun-88	371	Report of Survey Findings, UST Survey	Hazwrap Support Contractor Office
27-Sep-90	53	Federal Facility Agreement	EPA Region IX, California Department of Health Services, California Regional Water Quality Control Board
24-Dec-91	136	PA/SI, Stage 5, Draft Site Characterization Summary, 15th Air Force Sites, Vol I of IV	Tetra Tech, Inc.
24-Dec-91	137	PA/SI, Stage 5, Draft Site Characterization Summary, 15th Air Force Sites, Vol II of IV	Tetra Tech, Inc.
24-Dec-91	138	PA/SI, Stage 5, Draft Site Characterization Summary, 15th Air Force Sites, Vol III of IV	Tetra Tech, Inc.
24-Dec-91	139	PA/SI, Stage 5, Draft Site Characterization Summary, 15th Air Force Sites, Vol IV of IV	Tetra Tech, Inc.
Jan-92	428	Stage 5, ITIR, Soil Gas Surveys, HQ 15AF and DRMO Sites	Tetra Tech, Inc.
Jan-92	446	Stage 5, ITIR, Geophysical Surveys, HQ 15AF and DRMO Sites	Tetra Tech, Inc.
31-Jan-92	156	Stage 5, Draft Site Characterization Summary, ITIR, Vol I of II, HQ 15AF Area Sites	Tetra Tech, Inc.
31-Jan-92	157	Stage 5, Draft Site Characterization Summary, ITIR, Vol II of Vol II, Appendices A-D, HQ 15AF Area Sites	Tetra Tech, Inc.
Apr-92	169	Aerial Photographic Analysis of Study Area	EPA Region IX
16-Apr-92	439	Stage 5, Final Draft ITIR, Soil Gas Survey, HQ 15AF and DRMO Area Sites	Tetra Tech, Inc.
16-Apr-92	450	Final Draft ITIR, Analytical Data, DRMO Sites, LF-40	Tetra Tech, Inc.
22-Apr-92	431	Stage 5, Final Draft ITIR, Expanded Source Investigation, HQ 15AF Central Area Sites and LF-40	Tetra Tech, Inc.
24-Apr-92	449	Final Draft ITIR, Analytical Data, HQ 15AF Central Area Sites, LF-40	Tetra Tech, Inc.
27-Aug-92	195	Stage 5, SAP Addendum, OU-2	Tetra Tech, Inc.
27-Aug-92	196	Stage 5, Work Plan Addendum, OU-2	Tetra Tech, Inc.
Dec-92	425	QAPP, Supplement to SAP Addendum, OU-2	Tetra Tech, Inc.
Feb-93	6	Soil Gas Survey, ITIR, OU-2	Tetra Tech, Inc.
Jun-94	255	EE/CA, Final Report, Subsurface Investigation and Removal Action, WP-17	Tetra Tech, Inc.
Jul-94	130	Stage 5, Supplement to Work Plan Addendum and SAP Addendum, OU-2	Tetra Tech, Inc.

Oct-94	350	Summary of Subsurface Investigation and Removal Action, Analytical Results, WP-17	Tetra Tech, Inc.
Nov-94	372	Draft Channel Construction Plan, Rapid Response, LF-40	OHM Remediation Services Corp.
Jan-95	433	Groundwater Flow and Transport Model Preliminary Model Calibration, Draft Report, Appendix, Vol I of II	Tetra Tech, Inc.
Jan-95	434	Groundwater Flow and Transport Model Preliminary Model Calibration, Draft Report, Appendix, Vol II of II	Tetra Tech, Inc.
Feb-95	358	Site Specific Removal Action Memorandum, LF-06	IT Corp.
Feb-95	376	Stage 5, Analytical Data, ITIR, Vol I of XIII, OU-2	Tetra Tech, Inc.
Feb-95	377	Stage 5, Analytical Data, ITIR, Vol II of XIII, OU-2	Tetra Tech, Inc.
Feb-95	378	Stage 5, Analytical Data, ITIR, Vol III of XIII, OU-2	Tetra Tech, Inc.
Feb-95	379	Stage 5, Analytical Data, ITIR, Vol IV of XIII, OU-2	Tetra Tech, Inc.
Feb-95	380	Stage 5, Analytical Data, ITIR, Vol V of XIII, OU-2	Tetra Tech, Inc.
Feb-95	381	Stage 5, Analytical Data, ITIR, Vol VI of XIII, OU-2	Tetra Tech, Inc.
Feb-95	382	Stage 5, Analytical Data, ITIR, Vol VII of XIII, OU-2	Tetra Tech, Inc.
Feb-95	383	Stage 5, Analytical Data, ITIR, Vol VIII of XIII, OU-2	Tetra Tech, Inc.
Feb-95	384	Stage 5, Analytical Data, ITIR, Vol IX of XIII, OU-2	Tetra Tech, Inc.
Feb-95	385	Stage 5, Analytical Data, ITIR, Vol X of XIII, OU-2	Tetra Tech, Inc.
Feb-95	386	Stage 5, Analytical Data, ITIR, Vol XI of XIII, OU-2	Tetra Tech, Inc.
Feb-95	387	Stage 5, Analytical Data, ITIR, Vol XII of XIII, OU-2	Tetra Tech, Inc.
Feb-95	388	Stage 5, Analytical Data, ITIR, Vol XIII of XIII, OU-2	Tetra Tech, Inc.
Jun-95	469	Final Rapid Response Time Critical Removal Action Report, Vol I of II, LF-40	OHM Remediation Services Corp.
Jun-95	470	Final Rapid Response Time Critical Removal Action Report, Vol II of II, LF-40	OHM Remediation Services Corp.
Oct-95	476	Final Site Specific Removal Action Memorandum	IT Corp.
Jan-96	571	Excavation of Diesel Contaminated Soil, Technical Information Report, LF-06	IT Corp.
9-Jan-96	251	USFWS Letter to March ARB Concerning Biological Opinion Concerning a Proposed Land Use Strategy and Management of Stephens' Kangaroo Rats	US Fish and Wildlife Service
Feb-96	581	Modification to the Site-Specific Removal Action Memorandum, SS-01, SD-09, WP-25, and 12 UST Locations, and Consolidation of LF-06	IT Corp.
4-Apr-96	556	Final Project Report, Rapid Response Removal Actions, Vol I of III, LF-20, WP-26	OHM Remediation Services Corp.
4-Apr-96	557	Final Project Report, Rapid Response Removal Actions, Vol II of III, LF-20, WP-26	OHM Remediation Services Corp.
4-Apr-96	558	Final Project Report, Rapid Response Removal Actions, Vol III of III, LF-20, WP-26	OHM Remediation Services Corp.
Jun-96	658	Draft Examination of Anomalies Located by Multi-Spectral Survey	IT Corp.
Jan-97	730	Closure Report, Removal of Wastes, Vol I of II, LF-20, WP-26B	IT Corp.
Jan-97	731	Closure Report, Removal of Wastes, Vol II of II, LF-20, WP-26B	IT Corp.
Jan-97	732	Closure Report, Removal of Wastes, WP-26A	IT Corp.
Feb-97	737	Closure Report, Vol I of II, WP-25	IT Corp.
Feb-97	738	Closure Report, Vol II of II, WP-25	IT Corp.
Feb-97	739	Closure Report, Removal of Wastes, Vol I of II, SS-12	IT Corp.
Feb-97	740	Closure Report, Removal of Wastes, Vol II of II, SS-12	IT Corp.
Feb-97	741	Removal of Wastes Report, Vol I of II, LF-24	IT Corp.
Feb-97	742	Removal of Wastes Report, Vol II of II, LF-24	IT Corp.
Feb-97	743	Removal of Wastes Report, Vol I of II, LF-03	IT Corp.
Feb-97	744	Removal of Wastes Report, Vol II of II, LF-03	IT Corp.
Feb-97	892	Final Total Dissolved Solids Evaluation, Vol I of III	Tetra Tech, Inc.

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Feb-97	893	Final Total Dissolved Solids Evaluation, Vol II of III, Appendices	Tetra Tech, Inc.
Feb-97	894	Final Total Dissolved Solids Evaluation, Vol III of III, Appendices	Tetra Tech, Inc.
Feb-97	895	Final Trend Analysis	Tetra Tech, Inc.
Apr-97	787	Closure Report, Removal of Wastes, Vol I of II, LF-06	IT Corp.
Apr-97	788	Closure Report, Removal of Wastes, Vol II of II, LF-06	IT Corp.
Jul-97	678	RI/FS, Draft Final Report, Vol I of XVII, OU-2	Tetra Tech, Inc.
Jul-97	679	RI/FS, Draft Final Report, Vol II of XVII, OU-2	Tetra Tech, Inc.
Jul-97	680	RI/FS, Draft Final Report, Vol III of XVII, OU-2	Tetra Tech, Inc.
Jul-97	681	RI/FS, Draft Final Report, Vol IV of XVII, OU-2	Tetra Tech, Inc.
Jul-97	682	RI/FS, Draft Final Report, Vol V of XVII, OU-2	Tetra Tech, Inc.
Jul-97	766	Final Site Characterization Report, ST-39	Black & Veatch Waste Science, Inc.
Aug-97	794	Groundwater Assessment, LF-06	IT Corp.
Aug-97	855	Draft Final Site Closure Report, Former Diesel UST Site, ST-35	Parsons Engineering Science, Inc.
Sep-97	789	As-Built Construction Report, Vol I of V, LF-06	IT Corp.
Sep-97	790	As-Built Construction Report, Vol II of V, LF-06	IT Corp.
Sep-97	791	As-Built Construction Report, Vol III of V, LF-06	IT Corp.
Sep-97	792	As-Built Construction Report, Vol IV of V, LF-06	IT Corp.
Sep-97	793	As-Built Construction Report, Vol V of V, LF-06	IT Corp.
Sep-97	795	Post Closure Monitoring and Maintenance Plan, LF-06	IT Corp.
Sep-97	802	96 Annual Groundwater Report, Vol I of II	Tetra Tech, Inc.
Sep-97	803	96 Annual Groundwater Report, Vol II of II, Appendices	Tetra Tech, Inc.
Sep-97	804	Management Action Plan	Montgomery Watson
Sep-97	819	Basewide Groundwater Monitoring Program, Groundwater Flow and Transport Model, 96 Model Calibration and Predictions	Tetra Tech, Inc.
Sep-97	843	Closure Report, Removal of Waste, Vol I of II, LF-06	IT Corp.
Sep-97	844	Closure Report, Removal of Waste, Vol II of II, LF-06	IT Corp.
Oct-97	814	Characterization of Wastes, Vol I of IV, LF-24	IT Corp.
Oct-97	815	Characterization of Wastes, Vol II of IV, LF-24	IT Corp.
Oct-97	816	Characterization of Wastes, Vol III of IV, LF-24	IT Corp.
Oct-97	817	Characterization of Wastes, Vol IV of IV, LF-24	IT Corp.
27-Oct-97	931	RA, Final Field Summary Report, DP-30	OHM Remediation Services Corp.
Apr-98	840	Final Proposed Monitoring Strategy for Landfill Sites	Tetra Tech, Inc.
Jul-99	1030	Final O&M Work Plan, OU-2, LF-06	Tetra Tech, Inc., Black & Veatch Waste Science, Inc.
Nov-99	1028	Completion of Construction Report, Erosion Protection of Drainage Channel, LF-06	IT Corp.
1-May	1096	Final Annual Monitoring Report, 99-00	Montgomery Watson

APPENDIX C - ARARs

APPENDIX C - ARARs

Documentation of Applicable or Relevant and Appropriate Requirements (ARARs) for Selected Remedies

TABLE C-1: Sites 6, 12, 17, and 19, Relevant and Appropriate State Requirements

Requirement	ARAR Status	Source	Description
Action Specific			
Land Use Covenant	Relevant and Appropriate	CCR, title 22, section 67391.1(a)	Requires imposition of appropriate limitations on land use by recorded land use covenant when hazardous substances remain on the property at levels that are not suitable for unrestricted use of the land.
Land Use Covenant	Relevant and Appropriate	CCR, title 22, section 67391.1(b)	Requires that the cleanup decision document contain an implementation and enforcement plan for land use limitations.
Land Use Covenant	Relevant and Appropriate	CCR, title 22, section 67391.1(d)	Requires that the land use covenant be recorded in the county where the land is located.
Land Use Covenant	Relevant and Appropriate	CCR, title 22, section 67391.1(i)	Definitions
Land Use Covenant	Relevant and Appropriate	CA Civil Code Section 1471(a) & (b)	Specifies requirements for land use covenants to apply to successors in title to the land.

Table C-2

State Requirements Applicable or Relevant and Appropriate to the Site 6 Removal Action and O&M Work Plan

Requirement	ARAR Status	Source	Description
Chemical Specific			
National Primary Drinking Water Standards	Relevant and Appropriate	40 CFR Part 141.61	Maximum contaminant levels and monitoring and analytical requirements for organic chemicals
California Maximum Contaminant Levels – Organic Chemicals	Relevant and Appropriate (if more stringent than the 40 CFR 141.61 standard)	CCR, title 22, section 64444 – Primary Standards	Provides numerical contaminant limits for certain organic chemicals in drinking water.

Action Specific			
Monitoring Requirements	Applicable	CCR, title 27, section 20385	Release monitoring requirements for solid waste management units
General Closure and Post-Closure Maintenance	Applicable	CCR, title 27, section 20950(a), (e)	General closure and post-closure maintenance standards for solid waste management units
General Post-Closure Maintenance	Applicable	CCR, title 27, section 21090(b)(1), (c), (e)(2)	Closure and post-closure maintenance requirements for solid waste landfills.
Gas Monitoring and Control During Closure and Post-closure	Applicable	CCR, title 27, section 20921	Methane must not exceed 5% at the property boundary or other approved monitoring point
Gas Monitoring	Applicable	CCR, title 27, section 20923	Gas monitoring program required
Perimeter Monitoring Network	Applicable	CCR, title 27, section 20925	Perimeter subsurface monitoring wells required
Structure Monitoring	Applicable	CCR, title 27, section 20931	If there are structures, gas monitoring required
Monitored Parameters	Applicable	CCR, title 27, section 20932	Methane and any specified trace gases must be sampled
Monitoring Frequency	Applicable	CCR, title 27, section 20933	Quarterly monitoring required, at a minimum
Reporting	Applicable	CCR, title 27, section 20934	Results of monitoring to be submitted
Control	Applicable	CCR, title 27, section 20937	Requires gas control system if methane concentrations exceed compliance levels
Post-closure Maintenance	Applicable	CCR, title 27, section 21180	The landfill's final cover and operating systems must be maintained and monitored for no less than 30 years following closure.
Post-closure Land Use	Applicable	CCR, title 27, section 21190	Specifies restrictions and considerations in future land use

Table C-3

State Requirements Applicable or Relevant and Appropriate to the March ARB Quality Program Plan, as to Site 12

Requirement	ARAR Status	Source	Description
Chemical Specific			
National Primary Drinking Water Standards	Relevant and Appropriate	40 CFR Part 141.61	Maximum contaminant levels and monitoring and analytical requirements for organic chemicals
California Maximum Contaminant Levels – Organic Chemicals	Relevant and Appropriate (if more stringent than the 40 CFR 141.61 standard)	CCR, title 22, section 64444 – Primary Standards	Provides numerical contaminant limits for certain organic chemicals in drinking water.

Requirement			
Action Specific			
Water Quality Monitoring	Relevant and Appropriate	CCR, title 22, section 66264.97	Identifies requirements for water quality monitoring and monitoring systems for owners and operators of hazardous waste facilities

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

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Appendix F

Environmental Database Search & Physical Settings Reports

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Lewis-Meridian Park LLC, Upper Plateau
Former March Air Force Base - Ordinance Strge Area
Riverside, CA 92508

Inquiry Number: 6607282.2s
August 04, 2021

The EDR Radius Map™ Report with GeoCheck®

EDR®

FORM-LBC-KKT

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SECTION	PAGE

GEOCHECK ADDENDUM

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

FORMER MARCH AIR FORCE BASE - ORDINANCE STRGE AREA
RIVERSIDE, CA 92508

COORDINATES

Latitude (North):	33.9069140 - 33˚ 54' 24.89''
Longitude (West):	117.3088360 - 117˚ 18' 31.80''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	471447.9
UTM Y (Meters):	3751683.8
Elevation:	1735 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641312 RIVERSIDE EAST, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140527, 20140603
Source:	USDA

Target Property Address:
FORMER MARCH AIR FORCE BASE - ORDINANCE STRGE AREA
RIVERSIDE, CA 92508

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	MARCH AIR FORCE BASE		DOD	Same	1 ft.
Reg	MARCH AIR FORCE BASE	22 CSG/CC	NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST...	Same	1 ft.
1	MILLS TANK *D	14255 VISTA GRANDE	RCRA NonGen / NLR	Lower	361, 0.068, North
2	9TH STREET ITALIAN	19638 WEBSTER RD	EDR Hist Auto	Lower	600, 0.114, West
3	PAUL SMALL	14150 BARTON ST	RCRA NonGen / NLR	Lower	741, 0.140, NNW
4	BENJAMIN FRANKLIN EL	19661 ORANGE TERRACE	ENVIROSTOR, SCH, CERS	Higher	2304, 0.436, SSW
5	MARCH USAR	3,545 ACRES; E. OF R	ENVIROSTOR	Lower	4147, 0.785, East
6	RIVERSIDE ELEMENTARY	WOOD ROAD/BERT ROAD	ENVIROSTOR, SCH	Lower	4433, 0.840, WSW

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EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ⎯⎯⎯⎯⎯ Proposed National Priority List Sites
NPL LIENS ⎯⎯⎯⎯⎯ Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ⎯⎯⎯⎯⎯ National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ⎯⎯⎯⎯⎯ Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ⎯⎯⎯⎯⎯ Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ⎯⎯⎯⎯⎯ Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ⎯⎯⎯⎯⎯ RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG ⎯⎯⎯⎯⎯ RCRA - Small Quantity Generators
RCRA-VSQG ⎯⎯⎯⎯⎯ RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ⎯⎯⎯⎯⎯ Land Use Control Information System

Federal ERNS list

ERNS ⎯⎯⎯⎯⎯ Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent NPL

RESPONSE   State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF   Solid Waste Information System

State and tribal leaking storage tank lists

LUST   Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST   Leaking Underground Storage Tanks on Indian Land
CPS-SLIC   Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST   Underground Storage Tank Listing
UST   Active UST Facilities
AST   Aboveground Petroleum Storage Tank Facilities
INDIAN UST   Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP   Voluntary Cleanup Program Properties
INDIAN VCP   Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS   Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS   A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT   Waste Management Unit Database
SWRCY   Recycler Database
HAULERS   Registered Waste Tire Haulers Listing
INDIAN ODI   Report on the Status of Open Dumps on Indian Lands
ODI   Open Dump Inventory
DEBRIS REGION 9   Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS   Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL   Delisted National Clandestine Laboratory Register
HIST Cal-Sites   Historical Calsites Database
SCH   School Property Evaluation Program
CDL   Clandestine Drug Labs
CERS HAZ WASTE   CERS HAZ WASTE

EXECUTIVE SUMMARY

Toxic Pits - - - - - - - - - - - - - - - - - - Toxic Pits Cleanup Act Sites
US CDL - - - - - - - - - - - - - - - - - - - National Clandestine Laboratory Register
PFAS - PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

SWEEPS UST - - - - - - - - - - - - - - SWEEPS UST Listing
HIST UST - - - - - - - - - - - - - - - - - Hazardous Substance Storage Container Database
CA FID UST - - - - - - - - - - - - - - - Facility Inventory Database
CERS TANKS - - - - - - - - - - - - - California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS - Environmental Liens Listing
LIENS 2 - - - - - - - - - - - - - - - - - - CERCLA Lien Information
DEED - Deed Restriction Listing

Records of Emergency Release Reports

HMIRS - - - - - - - - - - - - - - - - - - - Hazardous Materials Information Reporting System
CHMIRS - - - - - - - - - - - - - - - - - - California Hazardous Material Incident Report System
LDS - Land Disposal Sites Listing
MCS - Military Cleanup Sites Listing
SPILLS 90 - - - - - - - - - - - - - - - - SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS - Formerly Used Defense Sites
SCRD DRYCLEANERS - - - - - - State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR - - - - - - - - - - - - Financial Assurance Information
EPA WATCH LIST - - - - - - - - - - EPA WATCH LIST
2020 COR ACTION - - - - - - - - - 2020 Corrective Action Program List
TSCA - Toxic Substances Control Act
TRIS - Toxic Chemical Release Inventory System
SSTS - Section 7 Tracking Systems
RMP - Risk Management Plans
RAATS - - - - - - - - - - - - - - - - - - - RCRA Administrative Action Tracking System
PADS - PCB Activity Database System
ICIS - Integrated Compliance Information System
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS - Material Licensing Tracking System
COAL ASH DOE - - - - - - - - - - - - Steam-Electric Plant Operation Data
COAL ASH EPA - - - - - - - - - - - - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - - - - - - - PCB Transformer Registration Database
RADINFO - - - - - - - - - - - - - - - - - Radiation Information Database
HIST FTTS - - - - - - - - - - - - - - - - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - - - - - - - - - - - - - - - - - Incident and Accident Data
CONSENT - - - - - - - - - - - - - - - - Superfund (CERCLA) Consent Decrees
INDIAN RESERV - - - - - - - - - - - Indian Reservations
FUSRAP - - - - - - - - - - - - - - - - - Formerly Utilized Sites Remedial Action Program
UMTRA - - - - - - - - - - - - - - - - - - Uranium Mill Tailings Sites
LEAD SMELTERS - - - - - - - - - - Lead Smelter Sites
US AIRS - - - - - - - - - - - - - - - - - Aerometric Information Retrieval System Facility Subsystem
US MINES - - - - - - - - - - - - - - - - Mines Master Index File

EXECUTIVE SUMMARY

ABANDONED MINES   Abandoned Mines
FINDS   Facility Index System/Facility Registry System
DOCKET HWC   Hazardous Waste Compliance Docket Listing
ECHO   Enforcement & Compliance History Information
UXO   Unexploded Ordnance Sites
FUELS PROGRAM   EPA Fuels Program Registered Listing
CA BOND EXP. PLAN   Bond Expenditure Plan
Cortese   "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings   CUPA Resources List
DRYCLEANERS   Cleaner Facilities
EMI   Emissions Inventory Data
ENF   Enforcement Action Listing
Financial Assurance   Financial Assurance Information Listing
HAZNET   Facility and Manifest Data
ICE   ICE
HIST CORTESE   Hazardous Waste & Substance Site List
HWP   EnviroStor Permitted Facilities Listing
HWT   Registered Hazardous Waste Transporter Database
MINES   Mines Site Location Listing
MWMP   Medical Waste Management Program Listing
NPDES   NPDES Permits Listing
PEST LIC   Pesticide Regulation Licenses Listing
PROC   Certified Processors Database
Notify 65   Proposition 65 Records
UIC   UIC Listing
UIC GEO   UIC GEO (GEOTRACKER)
WASTEWATER PITS   Oil Wastewater Pits Listing
WDS   Waste Discharge System
WIP   Well Investigation Program Case List
MILITARY PRIV SITES   MILITARY PRIV SITES (GEOTRACKER)
PROJECT   PROJECT (GEOTRACKER)
WDR   Waste Discharge Requirements Listing
CIWQS   California Integrated Water Quality System
CERS   CERS
NON-CASE INFO   NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS   OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS   PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT   SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ   Well Stimulation Project (GEOTRACKER)
HWTS   Hazardous Waste Tracking System
MINES MRDS   Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP   EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner   EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF   Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST------------------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE Cerclis ID:: 902761 EPA Id: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE Site ID: 0902761 EPA Id: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE EPA ID:: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE EPA ID:: CA4570024527 EPA ID:: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

US INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROLS list, as provided by EDR, and dated 02/22/2021 has revealed that there is 1 US INST CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE EPA ID:: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State

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EXECUTIVE SUMMARY

Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 04/23/2021 has revealed that there are 3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENJAMIN FRANKLIN EL Facility Id: 33820017 Status: Inactive - Withdrawn	*19661 ORANGE TERRACE*	*SSW 1/4 - 1/2 (0.436 mi.)*	*4*	*52*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARCH USAR Facility Id: 71000040 Status: No Further Action	3,545 ACRES; E. OF R	E 1/2 - 1 (0.785 mi.)	5	55
RIVERSIDE ELEMENTARY Facility Id: 33010028 Status: No Further Action	*WOOD ROAD/BERT ROAD*	*WSW 1/2 - 1 (0.840 mi.)*	*6*	*56*

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MILLS TANK *D EPA ID:: CAP000182428	14255 VISTA GRANDE	N 0 - 1/8 (0.068 mi.)	1	46
PAUL SMALL	14150 BARTON ST	NNW 1/8 - 1/4 (0.140 mi.)	3	50

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE		0 - 1/8 (0.000 mi.)	0	9

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 04/27/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE EPA ID:: CA4570024527	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

PRP: A listing of verified Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 PRP site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARCH AIR FORCE BASE	*22 CSG/CC*	*0 - 1/8 (0.000 mi.)*	*0*	*9*

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
9TH STREET ITALIAN	19638 WEBSTER RD	W 0 - 1/8 (0.114 mi.)	2	50

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
	CDL
	CDL
	CDL
ALESSANDRO PROPERTIES	ENVIROSTOR, VCP

DRAFT

Legend
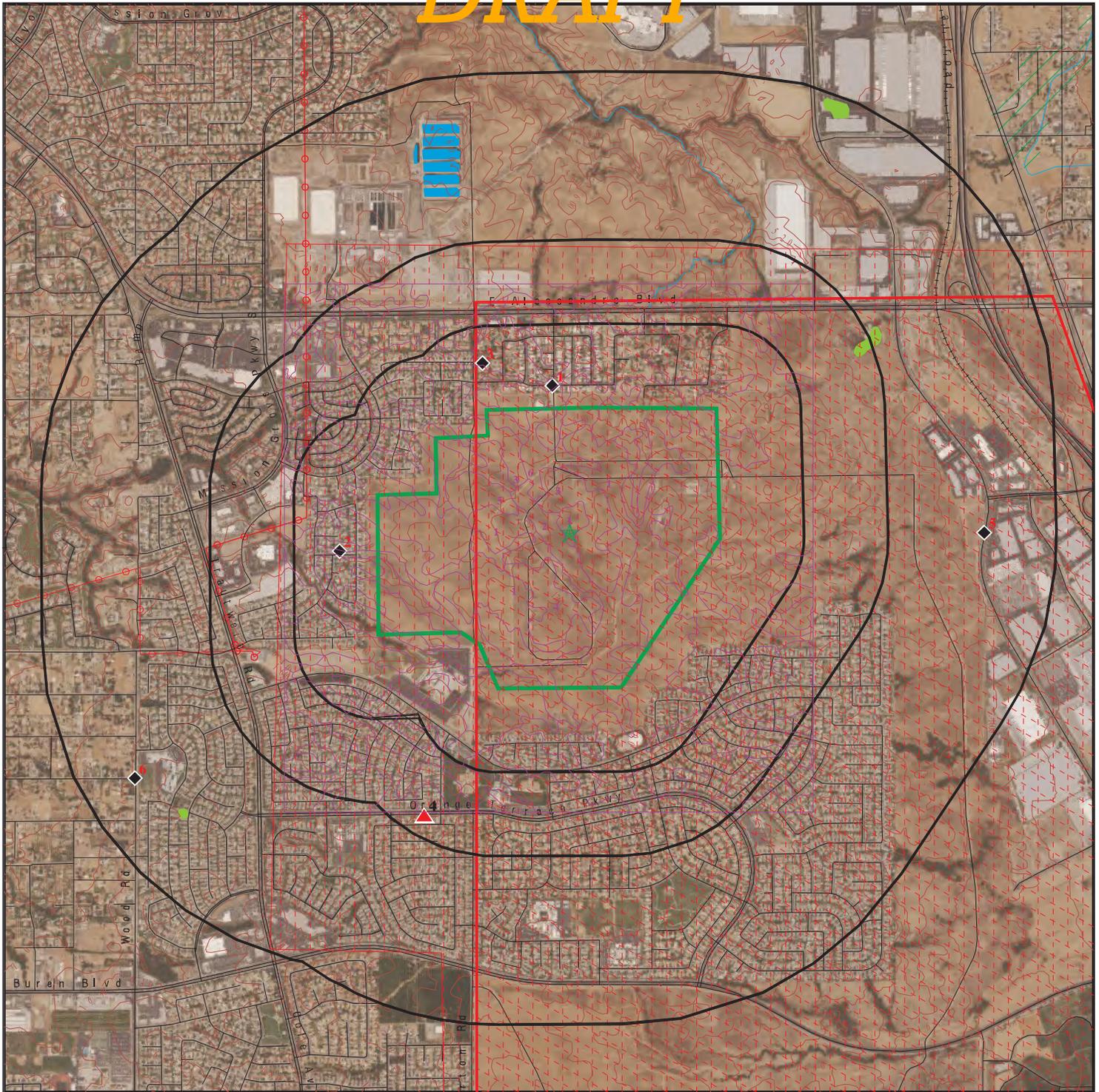
Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

⚓ Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

Scale: 0 — 1/4 — 1/2 — 1 Miles

SITE NAME:	Lewis-Meridian Park LLC, Upper Plateau	CLIENT:	Leighton Consulting
ADDRESS:	Former March Air Force Base - Ordinance Strge Area	CONTACT:	Robert Blaine Hansen
	Riverside CA 92508	INQUIRY #:	6607282.2s
LAT/LONG:	33.906914 / 117.308836	DATE:	August 04, 2021 8:05 pm

DRAFT

Legend

/\/ Target Property

▲ Sites at elevations higher than
 or equal to the target property

◆ Sites at elevations lower than
 the target property

⚒ Manufactured Gas Plants

⬛ Sensitive Receptors

▭ National Priority List Sites

▭ Dept. Defense Sites

▨ Indian Reservations BIA

/\/ Power transmission lines

▨ Special Flood Hazard Area (1%)

▨ 0.2% Annual Chance Flood Hazard

▦ Areas of Concern

0   1/8   1/4   1/2 Miles

This report includes Interactive Map Layers to
display and/or hide map information. The
legend includes only those icons for the
default map view.

SITE NAME:	Lewis-Meridian Park LLC, Upper Plateau	CLIENT:	Leighton Consulting
ADDRESS:	Former March Air Force Base - Ordinance Strge Area	CONTACT:	Robert Blaine Hansen
	Riverside CA 92508	INQUIRY #:	6607282.2s
LAT/LONG:	33.906914 / 117.308836	DATE:	August 04, 2021 8:05 pm

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DRAFT

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROLS	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0

State and tribal registered storage tank lists

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0

State and tribal voluntary cleanup sites

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0

State and tribal Brownfields sites

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
BROWNFIELDS	0.500		0	0	0	NR	NR	0

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US BROWNFIELDS	0.500		0	0	0	NR	NR	0

Local Lists of Landfill / Solid Waste Disposal Sites

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0

Local Lists of Hazardous waste / Contaminated Sites

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0

Local Lists of Registered Storage Tanks

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0

Local Land Records

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

Records of Emergency Release Reports

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0

Other Ascertainable Records

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		1	0	0	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		1	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	10	1	1	2	0	14

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID			
Direction			
Distance			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number

DOD   **MARCH AIR FORCE BASE (CLOSED)**   **DOD**   **CUSA143538**
Region   **N/A**
MARCH AIR FORCE BASE (CLO (County), CA
< 1/8
1 ft.

    DOD:
        Feature 1:   Air Force DOD
        Feature 2:   Not reported
        Feature 3:   Not reported
        URL: Not reported
        Name 1:   March Air Force Base (Closed)
        Name 2:   Not reported
        Name 3:   Not reported
        State: CA
        DOD Site: Yes
        Tile name: CARIVERSIDE

NPL   **MARCH AIR FORCE BASE**   **NPL**   **1000169261**
Region   **22 CSG/CC**   **SEMS**   **CA4570024527**
    RIVERSIDE, CA 92518   **RCRA-LQG**
< 1/8   **US ENG CONTROLS**
1 ft.   **US INST CONTROLS**
    ROD
    PRP

    NPL:
        EPA Region: 9
        EPA ID: CA4570024527
        Site ID: 902761
        Name: MARCH AIR FORCE BASE
        Address: 22 CSG/CC
        City,State,Zip: RIVERSIDE, CA 92518
        Federal: Y
        Final Date: 1989-11-21 00:00:00
        Latitude: 33.906389
        Longitude: -117.2557
        Site Score: 31.940000000000001

    NPL:
        NPL Status: Currently on the Final NPL
        Substance ID: Not reported
        CAS Number: Not reported
        Substance: Not reported
        Pathway: Not reported
        Scoring: Not reported

        NPL Status: Currently on the Final NPL
        Substance ID: A046
        CAS Number: 1336-36-3
        Substance: POLYCHLORINATED BIPHENYLS
        Pathway: GROUND WATER PATHWAY
        Scoring: 3

        NPL Status: Currently on the Final NPL
        Substance ID: U210
        CAS Number: 127-18-4
        Substance: TETRACHLOROETHENE
        Pathway: GROUND WATER PATHWAY
        Scoring: 2

Map ID
Direction
Distance
Elevation   Site

EDR ID Number

Database(s)   EPA ID Number

DRAFT

MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   1000169261

NPL Status: Currently on the Final NPL
Substance ID: U228
CAS Number: 79-01-6
Substance: TRICHLOROETHYLENE (TCE)
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal July 14, 1989): March Air Force Base MAFB) covers
approximately 7,000 acres near Riverside in the Moreno Valley in Riverside
County, California. MAFB is adjacent to light industrial, agricultural, and
residential areas. Established in 1918 as the Alessandro Aviation Field, MAFB
has served as a training base and refueling operations base. Industrial
operations including aircraft maintenance and repair) involved use of
solvents and disposal of solvent wastes. MAFB is participating in the
Installation Restoration Program IRP), established in 1978. Under this
program, the Department of Defense seeks to identify, investigate, and clean
up contamination from ha ardous materials. As part ofIRP, the Air Force
investigated 28 potentially contaminated disposal areas. MAFB Well No. 1
on-base was found to be contaminated with trichloroethylene,
tetrachloroethylene, and cis-1,2-dichloroethylene at levels that exceed State
drinking water standards. It was taken out of service. Soils on the base are
contaminated with toluene and ben ene. An estimated 11,600 people obtain
drinking water from municipal wells within 3 miles of ha ardous substances on
MAFB. The Air Forceis conducting a remedial investigation/ feasibility
study RI/FS) to determine the type and extent of contamination at the base
and identify alternatives for remedial action. Status November 21,
1989): Field work continues on the RI/FS.

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 50 And <= 100 Feet
Category Value: 65

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: MARCH AIR FORCE BASE

NPL:
EPA Region: 09
Site ID: 0902761
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 11/21/89
Date Proposed: 07/14/89

NPL:
Proposed Date: 07/14/1989
Final Date: 11/21/1989
Deleted Date: Not reported
NPL Status: Final

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

DRAFT

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

    SEMS:
        Site ID: 0902761
        EPA ID: CA4570024527
        Name: MARCH AIR FORCE BASE
        Address: 22 CSG/CC
        Address 2:   Not reported
        City,State,Zip: RIVERSIDE, CA 92518
        Cong District: 41,43
        FIPS Code: 06065
        Latitude: 33.906389
        Longitude: -117.255700
        FF: Y
        NPL: Currently on the Final NPL
        Non NPL Status: Not reported

    SEMS Detail:
        Region: 09
        Site ID: 0902761
        EPA ID: CA4570024527
        Site Name: MARCH AIR FORCE BASE
        NPL: F
        FF: Y
        OU: 00
        Action Code: NF
        Action Name: NPL FINL
        SEQ: 1
        Start Date: 1989-11-21 05:00:00
        Finish Date: 11/21/1989 5:00:00 AM
        Qual: Not reported
        Current Action Lead: EPA Perf

        Region: 09
        Site ID: 0902761
        EPA ID: CA4570024527
        Site Name: MARCH AIR FORCE BASE
        NPL: F
        FF: Y
        OU: 00
        Action Code: NP
        Action Name: PROPOSED
        SEQ: 1
        Start Date: 1989-07-14 04:00:00
        Finish Date: 7/14/1989 4:00:00 AM
        Qual: Not reported
        Current Action Lead: EPA Perf

        Region: 09
        Site ID: 0902761
        EPA ID: CA4570024527
        Site Name: MARCH AIR FORCE BASE
        NPL: F
        FF: Y
        OU: 00
        Action Code: HR
        Action Name: HAZRANK
        SEQ: 1
        Start Date: 1987-06-01 04:00:00

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

DRAFT

MARCH AIR FORCE BASE (Continued)   **1000169261**

Finish Date:	6/1/1987 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-10-24 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	4
Start Date:	2004-05-11 04:00:00
Finish Date:	5/11/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	5
Start Date:	2005-09-30 04:00:00
Finish Date:	9/30/2005 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	00
Action Code:	SI

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

EDR ID Number
Database(s)   EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Action Name: SI
SEQ: 1
Start Date: 1987-06-01 04:00:00
Finish Date: 6/1/1987 4:00:00 AM
Qual: L
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 01
Action Code: LX
Action Name: FF RD
SEQ: 1
Start Date: 1996-04-07 05:00:00
Finish Date: 4/18/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 04
Action Code: LW
Action Name: FF RI/FS
SEQ: 2
Start Date: 1990-09-27 04:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 04
Action Code: RO
Action Name: ROD
SEQ: 3
Start Date: 2005-09-29 04:00:00
Finish Date: 9/29/2005 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1985-02-01 06:00:00
Finish Date:	2/1/1985 6:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	6
Start Date:	1995-07-01 04:00:00
Finish Date:	7/1/1997 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	7
Start Date:	2004-04-01 05:00:00
Finish Date:	4/1/2004 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1990-09-27 04:00:00
Finish Date:	6/20/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 1996-06-20 04:00:00
Finish Date: 6/20/1996 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1987-02-01 05:00:00
Finish Date: 2/1/1987 5:00:00 AM
Qual: L
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 02
Action Code: LW
Action Name: FF RI/FS
SEQ: 4
Start Date: 1992-01-24 05:00:00
Finish Date: 4/30/1995 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0902761
EPA ID: CA4570024527
Site Name: MARCH AIR FORCE BASE
NPL: F
FF: Y
OU: 01
Action Code: EE
Action Name: EE/CA
SEQ: 1
Start Date: 2018-11-12 06:00:00
Finish Date: 11/12/2018 6:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

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Map ID				
Direction				
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	1996-03-05 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	5
Start Date:	2005-10-30 04:00:00
Finish Date:	5/21/2015 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0902761
EPA ID:	CA4570024527
Site Name:	MARCH AIR FORCE BASE
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	6
Start Date:	2019-04-22 05:00:00
Finish Date:	4/22/2019 5:00:00 AM
Qual:	R
Current Action Lead:	Fed Fac

RCRA-LQG:

Date Form Received by Agency:	2020-07-08 00:00:00.0
Handler Name:	MARCH AIR RESERVE BASE
Handler Address:	610 MEYER DR
Handler City,State,Zip:	MARCH ARB, CA 92518
EPA ID:	CA4570024527
Contact Name:	SEAN LEE
Contact Address:	MEYER DR
Contact City,State,Zip:	MARCH ARB, CA 92518
Contact Telephone:	951-655-5082
Contact Fax:	Not reported

MARCH AIR FORCE BASE (Continued)   1000169261

Contact Email:	SEAN.LEE.19@US.AF.MIL
Contact Title:	HAZARDOUS MATERIALS / WASTE MANAGER
EPA Region:	09
Land Type:	Federal
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	MEYER DR
Mailing City,State,Zip:	MARCH ARB, CA 92518
Owner Name:	US AIR FORCE
Owner Type:	Federal
Operator Name:	BRIG. GEN MELISSA COBURN
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

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MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   1000169261

Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 2020-09-28 14:20:58.0
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Map ID
Direction
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Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D021
Waste Description: CHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING:
                                     TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE,
                                     1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED
                                     FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING
                                     CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF
                                     ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED
                                     IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE
                                     SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,
                                     METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,
                                     CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE,
                                     ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-
                                     TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE
                                     USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE
                                     ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND
                                     F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND
                                     SPENT SOLVENT MIXTURES.

MARCH AIR FORCE BASE (Continued)   1000169261

Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	P098
Waste Description:	POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)
Waste Code:	U188
Waste Description:	PHENOL
Waste Code:	U227
Waste Description:	1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	USAF RESERVE COMMAND
Legal Status:	Federal
Date Became Current:	2006-07-23 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2145 GRAEBER STREET, ST 117
Owner/Operator City,State,Zip:	MARCH AIR RESERVE BASE, CA 92518
Owner/Operator Telephone:	951-655-4520
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GEN. RUSSELL A. MUNCY
Legal Status:	Federal
Date Became Current:	2013-11-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MULTIPLE OPS - ALL USAF COMMANDS

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	MAP FINDINGS	

Map ID
Direction
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Elevation   Site

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 22 CSG/CC
Owner/Operator City,State,Zip: CITY NOT REPORTED, CA 99999
Owner/Operator Telephone: 714-655-4735
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES AIR FORCE
Legal Status: Private
Date Became Current: 1918-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRAEBER STREET, ST 117
Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES AIR FORCE
Legal Status: Federal
Date Became Current: 1918-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRAEBER STREET, SUITE 117
Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: GENERAL JAMES L. MELIN
Legal Status: Private
Date Became Current: 2006-07-23 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: COL. RUSSELL A MUNCY
Legal Status: Federal
Date Became Current: 2013-11-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIG. GEN MELISSA COBURN
Legal Status: Federal
Date Became Current: 2019-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRAEBER ST., STE 117
Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518
Owner/Operator Telephone: 951-655-4520
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: MELISSA.COBURN@US.AF.MIL

Owner/Operator Indicator: Owner
Owner/Operator Name: US AIR FORCE
Legal Status: Federal
Date Became Current: 1918-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRAEBER ST., SUITE 117
Owner/Operator City,State,Zip: MARCH AIR RESERVE BASE, CA 92518-1667
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: USAF RESERVE COMMAND
Legal Status: Federal
Date Became Current: 1918-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRABER STREET SUITE 117
Owner/Operator City,State,Zip: MARCH ARB, CA 92518-2166
Owner/Operator Telephone: 951-655-4520
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: US AIR FORCE
Legal Status: Federal
Date Became Current: 1945-01-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2145 GRAEBER
Owner/Operator City,State,Zip: MARCH ARB, CA 92518
Owner/Operator Telephone: 951-655-4665
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: GENERAL JAMES T. RUBEOR
Legal Status: Federal
Date Became Current: 2003-07-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported

Map ID
Direction
Distance
Elevation   Site   Database(s)

EDR ID Number
EPA ID Number

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MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   **1000169261**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	GENERAL JAMES L. MELIN
Legal Status:	Federal
Date Became Current:	2006-07-23 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	CA 92518
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	1945-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2145 GRAEBER
Owner/Operator City,State,Zip:	MARCH ARB, CA 92518
Owner/Operator Telephone:	951-655-4665
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	COL MARY ARB
Legal Status:	Federal
Date Became Current:	2010-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2145 GRABER STREET SUITE 117
Owner/Operator City,State,Zip:	MARCH ARB, CA 92518-2166
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	US AIR FORCE
Legal Status:	Federal
Date Became Current:	1947-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2145 GRAEBER ST, BLDG 470
Owner/Operator City,State,Zip:	MARCH ARB, CA 92518
Owner/Operator Telephone:	951-655-4665
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	COLONEL JAMES T. RUBEOR
Legal Status:	Federal
Date Became Current:	2003-07-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

Map ID
Direction
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Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	USAF
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	452 SPTG CEV
Owner/Operator City,State,Zip:	MARCH ARB, CA 92518-2166
Owner/Operator Telephone:	909-655-5069
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2010-07-15 00:00:00.0
Handler Name:	MARCH AIR RESERVE BASE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	2013-03-20 00:00:00.0
Handler Name:	MARCH AIR RESERVE BASE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	2014-10-22 00:00:00.0
Handler Name:	MARCH AIR RESERVE BASE
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Map ID
Direction
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Elevation   Site

MAP FINDINGS

Database(s)

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EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Receive Date: 2016-02-29 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2020-07-08 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 1996-09-01 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2000-07-14 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1992-03-30 00:00:00.0
Handler Name: MARCH AIR FORCE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

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Database(s)

EDR ID Number
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MARCH AIR FORCE BASE (Continued)   1000169261

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	1994-03-31 00:00:00.0
Handler Name:	MARCH AIR FORCE BASE, CA
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	1996-03-26 00:00:00.0
Handler Name:	MARCH AFB, CA
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	1999-03-04 00:00:00.0
Handler Name:	MARCH ARB, CA
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	2000-10-12 00:00:00.0
Handler Name:	MARCH ARB CA
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Map ID
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MAP FINDINGS

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EDR ID Number
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MARCH AIR FORCE BASE (Continued)   1000169261

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-04-10 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-02-25 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2006-02-08 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2008-03-26 00:00:00.0
Handler Name: MARCH AIR RESERVE BASE
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 92811

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EDR ID Number
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MARCH AIR FORCE BASE (Continued)   1000169261

    NAICS Description: NATIONAL SECURITY

    NAICS Code: 92812
    NAICS Description: INTERNATIONAL AFFAIRS

   Facility Has Received Notices of Violation:
    Found Violation: No
    Agency Which Determined Violation: Not reported
    Violation Short Description: Not reported
    Date Violation was Determined: Not reported
    Actual Return to Compliance Date: Not reported
    Return to Compliance Qualifier: Not reported
    Violation Responsible Agency: Not reported
    Scheduled Compliance Date: Not reported
    Enforcement Identifier: Not reported
    Date of Enforcement Action: Not reported
    Enforcement Responsible Agency: Not reported
    Enforcement Docket Number: Not reported
    Enforcement Attorney: Not reported
    Corrective Action Component: Not reported
    Appeal Initiated Date: Not reported
    Appeal Resolution Date: Not reported
    Disposition Status Date: Not reported
    Disposition Status: Not reported
    Disposition Status Description: Not reported
    Consent/Final Order Sequence Number:Not reported
    Consent/Final Order Respondent Name: Not reported
    Consent/Final Order Lead Agency: Not reported
    Enforcement Type: Not reported
    Enforcement Responsible Person: Not reported
    Enforcement Responsible Sub-Organization: Not reported
    SEP Sequence Number: Not reported
    SEP Expenditure Amount: Not reported
    SEP Scheduled Completion Date: Not reported
    SEP Actual Date: Not reported
    SEP Defaulted Date: Not reported
    SEP Type: Not reported
    SEP Type Description: Not reported
    Proposed Amount: Not reported
    Final Monetary Amount: Not reported
    Paid Amount: Not reported
    Final Count: Not reported
    Final Amount: Not reported

    Found Violation: Yes
    Agency Which Determined Violation: EPA
    Violation Short Description: Generators - General
    Date Violation was Determined: 1995-04-27 00:00:00.0
    Actual Return to Compliance Date: 2000-04-27 00:00:00.0
    Return to Compliance Qualifier: Not Resolved
    Violation Responsible Agency: EPA
    Scheduled Compliance Date: Not reported
    Enforcement Identifier: 002
    Date of Enforcement Action: 1995-04-28 00:00:00.0
    Enforcement Responsible Agency: EPA
    Enforcement Docket Number: Not reported
    Enforcement Attorney: Not reported

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MAP FINDINGS

Database(s)   EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

      Corrective Action Component: No
      Appeal Initiated Date: Not reported
      Appeal Resolution Date: Not reported
      Disposition Status Date: Not reported
      Disposition Status: Not reported
      Disposition Status Description: Not reported
      Consent/Final Order Sequence Number:Not reported
      Consent/Final Order Respondent Name: Not reported
      Consent/Final Order Lead Agency: Not reported
      Enforcement Type: WRITTEN INFORMAL
      Enforcement Responsible Person: R9STA
      Enforcement Responsible Sub-Organization: Not reported
      SEP Sequence Number: Not reported
      SEP Expenditure Amount: Not reported
      SEP Scheduled Completion Date: Not reported
      SEP Actual Date: Not reported
      SEP Defaulted Date: Not reported
      SEP Type: Not reported
      SEP Type Description: Not reported
      Proposed Amount: Not reported
      Final Monetary Amount: Not reported
      Paid Amount: Not reported
      Final Count: Not reported
      Final Amount: Not reported

      Found Violation: Yes
      Agency Which Determined Violation: EPA
      Violation Short Description: Generators - General
      Date Violation was Determined: 1984-03-05 00:00:00.0
      Actual Return to Compliance Date: 1995-04-04 00:00:00.0
      Return to Compliance Qualifier: Unverifiable
      Violation Responsible Agency: EPA
      Scheduled Compliance Date: Not reported
      Enforcement Identifier: 001
      Date of Enforcement Action: 1984-05-18 00:00:00.0
      Enforcement Responsible Agency: EPA
      Enforcement Docket Number: Not reported
      Enforcement Attorney: Not reported
      Corrective Action Component: No
      Appeal Initiated Date: Not reported
      Appeal Resolution Date: Not reported
      Disposition Status Date: Not reported
      Disposition Status: Not reported
      Disposition Status Description: Not reported
      Consent/Final Order Sequence Number:Not reported
      Consent/Final Order Respondent Name: Not reported
      Consent/Final Order Lead Agency: Not reported
      Enforcement Type: WRITTEN INFORMAL
      Enforcement Responsible Person: R9EPA
      Enforcement Responsible Sub-Organization: Not reported
      SEP Sequence Number: Not reported
      SEP Expenditure Amount: Not reported
      SEP Scheduled Completion Date: Not reported
      SEP Actual Date: Not reported
      SEP Defaulted Date: Not reported
      SEP Type: Not reported
      SEP Type Description: Not reported

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MARCH AIR FORCE BASE (Continued)   **1000169261**

    Proposed Amount: Not reported
    Final Monetary Amount: Not reported
    Paid Amount: Not reported
    Final Count: Not reported
    Final Amount: Not reported

    Found Violation: No
    Agency Which Determined Violation: Not reported
    Violation Short Description: Not reported
    Date Violation was Determined: Not reported
    Actual Return to Compliance Date: Not reported
    Return to Compliance Qualifier: Not reported
    Violation Responsible Agency: Not reported
    Scheduled Compliance Date: Not reported
    Enforcement Identifier: Not reported
    Date of Enforcement Action: Not reported
    Enforcement Responsible Agency: Not reported
    Enforcement Docket Number: Not reported
    Enforcement Attorney: Not reported
    Corrective Action Component: Not reported
    Appeal Initiated Date: Not reported
    Appeal Resolution Date: Not reported
    Disposition Status Date: Not reported
    Disposition Status: Not reported
    Disposition Status Description: Not reported
    Consent/Final Order Sequence Number:Not reported
    Consent/Final Order Respondent Name: Not reported
    Consent/Final Order Lead Agency: Not reported
    Enforcement Type: Not reported
    Enforcement Responsible Person: Not reported
    Enforcement Responsible Sub-Organization: Not reported
    SEP Sequence Number: Not reported
    SEP Expenditure Amount: Not reported
    SEP Scheduled Completion Date: Not reported
    SEP Actual Date: Not reported
    SEP Defaulted Date: Not reported
    SEP Type: Not reported
    SEP Type Description: Not reported
    Proposed Amount: Not reported
    Final Monetary Amount: Not reported
    Paid Amount: Not reported
    Final Count: Not reported
    Final Amount: Not reported

  Evaluation Action Summary:
    Evaluation Date: 2006-11-02 00:00:00.0
    Evaluation Responsible Agency: State
    Found Violation: No
    Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
    Evaluation Responsible Person Identifier: Not reported
    Evaluation Responsible Sub-Organization: Not reported
    Actual Return to Compliance Date: Not reported
    Scheduled Compliance Date: Not reported
    Date of Request: Not reported
    Date Response Received: Not reported
    Request Agency: Not reported
    Former Citation: Not reported

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EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Evaluation Date:	1995-04-04 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2000-04-27 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1984-03-05 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	1995-04-04 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1996-05-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	R9STA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SIte:

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
Address 2:	Not reported
City,State,Zip:	RIVERSIDE, CA 92518
Event Code:	Not reported
Action Taken Date:	08/01/2017
EPA ID:	CA4570024527

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MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

> Action Name: ROD Amendment
> Action ID: 1
> Operable Unit: 01
> Contaminated Media: Soil
> Contact Name: Not reported
> Contact Telephone: Not reported
> Event: Not reported
> Federal Facility: Y
> Fiscal Year: 2017
> NPL Status: Currently on the Final NPL
> Superfund Alternative Agreement: N
> Latitude: 33.906389
> Longitude: -117.255700

Media:
> EPA ID: CA4570024527
> Contaminated Media: Soil
> Action ID: 1
> Operable Unit: 01
> Action Name: Explanation of Significant Differences
> Action Taken Date: 08/24/2000
> Event Code: Not reported
> Contact Name: Not reported
> Contact Telephone: Not reported
> Event: Not reported
> Federal Facility: Y
> Fiscal Year: 2000
> NPL Status: Currently on the Final NPL
> Superfund Alternative Agreement: N
> Latitude: 33.906389
> Longitude: -117.255700
>
> EPA ID: CA4570024527
> Contaminated Media: Soil
> Action ID: 1
> Operable Unit: 01
> Action Name: ROD Amendment
> Action Taken Date: 08/01/2017
> Event Code: Not reported
> Contact Name: Not reported
> Contact Telephone: Not reported
> Event: Not reported
> Federal Facility: Y
> Fiscal Year: 2017
> NPL Status: Currently on the Final NPL
> Superfund Alternative Agreement: N
> Latitude: 33.906389
> Longitude: -117.255700
>
> EPA ID: CA4570024527
> Contaminated Media: Soil
> Action ID: 1
> Operable Unit: 01
> Action Name: ROD Amendment
> Action Taken Date: 08/01/2017
> Event Code: Not reported
> Contact Name: Not reported
> Contact Telephone: Not reported

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MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	08/01/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	08/01/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	08/01/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389

Map ID
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EDR ID Number
EPA ID Number

MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   **1000169261**

Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	08/01/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil Gas
Action ID:	1
Operable Unit:	01
Action Name:	ROD Amendment
Action Taken Date:	08/01/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	02
Action Name:	ROD Amendment
Action Taken Date:	12/12/2016
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01

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MAP FINDINGS

Database(s)

EDR ID Number
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MARCH AIR FORCE BASE (Continued)   **1000169261**

Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

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MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   1000169261

Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Free-phase NAPL
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700

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MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

EPA ID: CA4570024527
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

EPA ID: CA4570024527
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 06/20/1996

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Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700

EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700

EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700

EPA ID:	CA4570024527
Contaminated Media:	Free-phase NAPL
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996

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EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Free-phase NAPL
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

Contaminated Media:	Soil
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	06/20/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	09/29/2005
Event Code:	Not reported

Map ID
Direction
Distance
Elevation   Site

DRAFT

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   **1000169261**

Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Soil
Action ID:	5
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/30/2005
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2005
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	33.906389
Longitude:	-117.255700
EPA ID:	CA4570024527
Contaminated Media:	Not reported
Action ID:	7
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	04/01/2004
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2004
NPL Status:	Currently on the Final NPL

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

DRAFT

MARCH AIR FORCE BASE (Continued)   **1000169261**

Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

US INST CONTROLS:
Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
Address 2:   Not reported
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
Action Name: ROD Amendment
Action ID: 1
Operable Unit: 01
Actual Date: 08/01/2017
Contaminated Media: Soil Gas
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2017
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
Address 2:   Not reported
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
Action Name: Record of Decision
Action ID: 3
Operable Unit: 04
Actual Date: 09/29/2005
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2005
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
Address 2:   Not reported
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
Action Name: Record of Decision
Action ID: 4
Operable Unit: 02
Actual Date: 05/11/2004

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MAP FINDINGS

MARCH AIR FORCE BASE (Continued)   1000169261

Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2004
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
Address 2:   Not reported
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
Action Name: Record of Decision
Action ID: 4
Operable Unit: 02
Actual Date: 05/11/2004
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2004
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
Address 2:   Not reported
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
Action Name: Record of Decision
Action ID: 5
Operable Unit: 02
Actual Date: 09/30/2005
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2005
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 33.906389
Longitude: -117.255700

ROD:
Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC

Map ID
Direction
Distance
Elevation Site

MAP FINDINGS

DRAFT

Database(s)

EDR ID Number
EPA ID Number

MARCH AIR FORCE BASE (Continued)   1000169261

City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
RG: 9
Site ID: 902761
Action: FF ESD
Operable Unit Number: EAST MARCH - SOILS/GW
SEQ ID: 1
Action Completion: 2000-08-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
RG: 9
Site ID: 902761
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: EAST MARCH - SOILS/GW
SEQ ID: 1
Action Completion: 1996-06-20 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
RG: 9
Site ID: 902761
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: BASEWIDE
SEQ ID: 3
Action Completion: 2005-09-29 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
RG: 9
Site ID: 902761
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: WEST MARCH - SOILS/GW
SEQ ID: 4
Action Completion: 2004-05-11 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: MARCH AIR FORCE BASE
Address: 22 CSG/CC
City,State,Zip: RIVERSIDE, CA 92518
EPA ID: CA4570024527
RG: 9
Site ID: 902761
Action: FF ROD (RCRA Statement of Basis/RTC)

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

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MARCH AIR FORCE BASE (Continued)   1000169261

Operable Unit Number:	WEST MARCH - SOILS/GW
SEQ ID:	5
Action Completion:	2005-09-30 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
City,State,Zip:	RIVERSIDE, CA 92518
EPA ID:	CA4570024527
RG:	9
Site ID:	902761
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	SITEWIDE GW
SEQ ID:	6
Action Completion:	2019-04-22 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
City,State,Zip:	RIVERSIDE, CA 92518
EPA ID:	CA4570024527
RG:	9
Site ID:	902761
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	WEST MARCH - SOILS/GW
SEQ ID:	7
Action Completion:	2004-04-01 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
City,State,Zip:	RIVERSIDE, CA 92518
EPA ID:	CA4570024527
RG:	9
Site ID:	902761
Action:	FF ROD Amendment
Operable Unit Number:	EAST MARCH - SOILS/GW
SEQ ID:	1
Action Completion:	2017-08-01 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
City,State,Zip:	RIVERSIDE, CA 92518
EPA ID:	CA4570024527
RG:	9
Site ID:	902761
Action:	FF ROD Amendment
Operable Unit Number:	EAST MARCH - SOILS/GW
SEQ ID:	2
Action Completion:	2019-02-25 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

MARCH AIR FORCE BASE (Continued)   1000169261

Name:	MARCH AIR FORCE BASE
Address:	22 CSG/CC
City,State,Zip:	RIVERSIDE, CA 92518
EPA ID:	CA4570024527
RG:	9
Site ID:	902761
Action:	FF ROD Amendment
Operable Unit Number:	WEST MARCH - SOILS/GW
SEQ ID:	3
Action Completion:	2016-12-12 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

PRP:
PRP Name:	STATE OF CALIFORNIA/DEPT. OF HEALTH SERVICES
	STATE OF CALIFORNIA/DEPT. OF WATER QUALITY
	U.S. AIR FORCE
	U.S. AIR FORCE

1	**MILLS TANK *D**	**RCRA NonGen / NLR**	**1025880484**
North	**14255 VISTA GRANDE**		**CAP000182428**
< 1/8	**RIVERSIDE, CA 92578**		
0.068 mi.			
361 ft.			

Relative:
Lower

Actual:
1651 ft.

RCRA NonGen / NLR:
Date Form Received by Agency:		2007-06-28 00:00:00.0
Handler Name:	MILLS TANK *D	
Handler Address:		14255 VISTA GRANDE
Handler City,State,Zip:		RIVERSIDE, CA 92578
EPA ID:		CAP000182428
Contact Name:		JUDY J ADAMS
Contact Address:		PO BOX 8300
Contact City,State,Zip:		PERRIS, CA 92573
Contact Telephone:		951-928-3777 x6252
Contact Fax:		Not reported
Contact Email:		ADAMSJ@EMWD.ORG
Contact Title:		Not reported
EPA Region:		09
Land Type:		Municipal
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 8300
Mailing City,State,Zip:		PERRIS, CA 92573
Owner Name:		EASTERN MUNICIPAL WATER DISTRICT
Owner Type:		Municipal
Operator Name:		EASTERN MUNICIPAL WATER DISTRICT
Operator Type:		Municipal
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

MILLS TANK *D (Continued)   1025880484

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2007-07-02 19:08:39.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:
Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003

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| | MAP FINDINGS | |

Map ID
Direction
Distance
Elevation   Site

EDR ID Number
Database(s)   EPA ID Number

MILLS TANK *D (Continued) 1025880484

Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1950-10-16 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 8300
Owner/Operator City,State,Zip:	PERRIS, CA 92572
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1950-10-16 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EASTERN MUNICIPAL WATER DISTRICT
Legal Status:	Municipal
Date Became Current:	1950-10-16 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 8300
Owner/Operator City,State,Zip:	PERRIS, CA 92572
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MAP FINDINGS

MILLS TANK *D (Continued)   1025880484

    Owner/Operator Indicator: Operator
    Owner/Operator Name: EASTERN MUNICIPAL WATER DISTRICT
    Legal Status: Municipal
    Date Became Current: 1950-10-16 00:00:00.
    Date Ended Current: Not reported
    Owner/Operator Address: Not reported
    Owner/Operator City,State,Zip: Not reported
    Owner/Operator Telephone: Not reported
    Owner/Operator Telephone Ext: Not reported
    Owner/Operator Fax: Not reported
    Owner/Operator Email: Not reported

Historic Generators:
    Receive Date: 2007-06-28 00:00:00.0
    Handler Name: MILLS TANK *D
    Federal Waste Generator Description: Not a generator, verified
    State District Owner: Not reported
    Large Quantity Handler of Universal Waste: No
    Recognized Trader Importer: No
    Recognized Trader Exporter: No
    Spent Lead Acid Battery Importer: No
    Spent Lead Acid Battery Exporter: No
    Current Record: Yes
    Non Storage Recycler Activity: Not reported
    Electronic Manifest Broker: Not reported

    Receive Date: 2007-03-16 00:00:00.0
    Handler Name: MILLS TANK
    Federal Waste Generator Description: Large Quantity Generator
    State District Owner: Not reported
    Large Quantity Handler of Universal Waste: No
    Recognized Trader Importer: No
    Recognized Trader Exporter: No
    Spent Lead Acid Battery Importer: No
    Spent Lead Acid Battery Exporter: No
    Current Record: No
    Non Storage Recycler Activity: Not reported
    Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
    NAICS Code: 22131
    NAICS Description: WATER SUPPLY AND IRRIGATION SYSTEMS

Facility Has Received Notices of Violations:
    Violations: No Violations Found

Evaluation Action Summary:
    Evaluations: No Evaluations Found

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MAP FINDINGS

2	**9TH STREET ITALIAN**	**EDR Hist Auto**	**1020221487**
West	**19638 WEBSTER RD**		**N/A**
< 1/8	**RIVERSIDE, CA 92508**		
0.114 mi.			
600 ft.			

Relative: EDR Hist Auto
Lower

Actual:
1623 ft.

Year:	Name:	Type:
2013	9TH STREET ITALIAN	Gasoline Service Stations
2014	9TH STREET ITALIAN	Gasoline Service Stations

3	**PAUL SMALL**	**RCRA NonGen / NLR**	**1026487234**
NNW	**14150 BARTON ST**		**CAC003093415**
1/8-1/4	**RIVERSIDE, CA 92508**		
0.140 mi.			
741 ft.			

Relative: RCRA NonGen / NLR:
Lower

Actual:
1649 ft.

Date Form Received by Agency:	2020-11-17 00:00:00.0
Handler Name:	PAUL SMALL
Handler Address:	14150 BARTON ST
Handler City,State,Zip:	RIVERSIDE, CA 92508
EPA ID:	CAC003093415
Contact Name:	PAUL SMALL
Contact Address:	14150 BARTON ST
Contact City,State,Zip:	RIVERSIDE, CA 92508
Contact Telephone:	951-653-0086
Contact Fax:	Not reported
Contact Email:	SCHEDULING@PWSEI.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14150 BARTON ST
Mailing City,State,Zip:	RIVERSIDE, CA 92508
Owner Name:	PAUL SMALL
Owner Type:	Other
Operator Name:	PAUL SMALL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

PAUL SMALL (Continued)   1026487234

Active Site Converter Treatment storage and Disposal Facility: Not reported
Active Site State-Reg Treatment Storage and Disposal Facility: Not reported
Active Site State-Reg Handler: ---
Federal Facility Indicator: Not reported
Hazardous Secondary Material Indicator: N
Sub-Part K Indicator: Not reported
Commercial TSD Indicator: No
Treatment Storage and Disposal Type: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline
Permit Renewals Workload Universe: Not reported
Permit Workload Universe: Not reported
Permit Progress Universe: Not reported
Post-Closure Workload Universe: Not reported
Closure Workload Universe: Not reported
202 GPRA Corrective Action Baseline: No
Corrective Action Workload Universe: No
Subject to Corrective Action Universe: No
Non-TSDFs Where RCRA CA has Been Imposed Universe: No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: No
TSDFs Only Subject to CA under Discretionary Auth Universe: No
Corrective Action Priority Ranking: No NCAPS ranking
Environmental Control Indicator: No
Institutional Control Indicator: No
Human Exposure Controls Indicator: N/A
Groundwater Controls Indicator: N/A
Operating TSDF Universe: Not reported
Full Enforcement Universe: Not reported
Significant Non-Complier Universe: No
Unaddressed Significant Non-Complier Universe: No
Addressed Significant Non-Complier Universe: No
Significant Non-Complier With a Compliance Schedule Universe: No
Financial Assurance Required: Not reported
Handler Date of Last Change: 2020-11-30 19:32:25.0
Recognized Trader-Importer: No
Recognized Trader-Exporter: No
Importer of Spent Lead Acid Batteries: No
Exporter of Spent Lead Acid Batteries: No
Recycler Activity Without Storage: No
Manifest Broker: No
Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: PAUL SMALL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14150 BARTON ST
Owner/Operator City,State,Zip: RIVERSIDE, CA 92508
Owner/Operator Telephone: 951-653-0086
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

Map ID
Direction
Distance
Elevation   Site

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MAP FINDINGS

EDR ID Number
Database(s)   EPA ID Number

PAUL SMALL (Continued)   1026487234

        Owner/Operator Name: PAUL SMALL
        Legal Status: Other
        Date Became Current: Not reported
        Date Ended Current: Not reported
        Owner/Operator Address: 14150 BARTON ST
        Owner/Operator City,State,Zip: RIVERSIDE, CA 92508
        Owner/Operator Telephone: 951-653-0086
        Owner/Operator Telephone Ext: Not reported
        Owner/Operator Fax: Not reported
        Owner/Operator Email: Not reported

Historic Generators:
        Receive Date: 2020-11-17 00:00:00.0
        Handler Name: PAUL SMALL
        Federal Waste Generator Description: Not a generator, verified
        State District Owner: Not reported
        Large Quantity Handler of Universal Waste: No
        Recognized Trader Importer: No
        Recognized Trader Exporter: No
        Spent Lead Acid Battery Importer: No
        Spent Lead Acid Battery Exporter: No
        Current Record: Yes
        Non Storage Recycler Activity: Not reported
        Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
        NAICS Code: 56299
        NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
        Violations: No Violations Found

Evaluation Action Summary:
        Evaluations: No Evaluations Found

4	**BENJAMIN FRANKLIN ELEMENTARY SCHOOL**	ENVIROSTOR	S107027265
SSW	**19661 ORANGE TERRACE PARKWAY**	SCH	N/A
1/4-1/2	**RIVERSIDE, CA 92508**	CERS	
0.436 mi.			
2304 ft.			

Relative: ENVIROSTOR:
Higher   Name: BENJAMIN FRANKLIN ELEMENTARY SCHOOL
Actual: Address: 19661 ORANGE TERRACE PARKWAY
1760 ft.   City,State,Zip: RIVERSIDE, CA 92508-3256
    Facility ID: 33820017
    Status: Inactive - Withdrawn
    Status Date: 02/19/2002
    Site Code: 404301
    Site Type: School Investigation
    Site Type Detailed: School
    Acres: 11
    NPL: NO
    Regulatory Agencies: DTSC
    Lead Agency: DTSC

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

EDR ID Number
Database(s)   EPA ID Number

BENJAMIN FRANKLIN ELEMENTARY SCHOOL (Continued)   **S107027265**

Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	61
Senate:	31
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.89440
Longitude:	-117.3209
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	RIVERSIDE USD-BENJAMIN FRANKLIN ELEM
Alias Type:	Alternate Name
Alias Name:	404301
Alias Type:	Project Code (Site Code)
Alias Name:	33820017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/19/2002
Comments:	The school project was dropped in December 2001.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	BENJAMIN FRANKLIN ELEMENTARY SCHOOL
Address:	19661 ORANGE TERRACE PARKWAY
City,State,Zip:	RIVERSIDE, CA 92508-3256
Facility ID:	33820017
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	11
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

DRAFT

Database(s)

EDR ID Number
EPA ID Number

BENJAMIN FRANKLIN ELEMENTARY SCHOOL (Continued)   **S107027265**

    Site Code: 404301
    Assembly: 61
    Senate: 31
    Special Program Status: Not reported
    Status: Inactive - Withdrawn
    Status Date: 02/19/2002
    Restricted Use: NO
    Funding: School District
    Latitude: 33.89440
    Longitude: -117.3209
    APN: NONE SPECIFIED
    Past Use: * EDUCATIONAL SERVICES
    Potential COC: NONE SPECIFIED
    Confirmed COC: NONE SPECIFIED
    Potential Description: NONE SPECIFIED
    Alias Name: RIVERSIDE USD-BENJAMIN FRANKLIN ELEM
    Alias Type: Alternate Name
    Alias Name: 404301
    Alias Type: Project Code (Site Code)
    Alias Name: 33820017
    Alias Type: Envirostor ID Number

  Completed Info:
    Completed Area Name: PROJECT WIDE
    Completed Sub Area Name: Not reported
    Completed Document Type: Cost Recovery Closeout Memo
    Completed Date: 02/19/2002
    Comments: The school project was dropped in December 2001.

    Future Area Name: Not reported
    Future Sub Area Name: Not reported
    Future Document Type: Not reported
    Future Due Date: Not reported
    Schedule Area Name: Not reported
    Schedule Sub Area Name: Not reported
    Schedule Document Type: Not reported
    Schedule Due Date: Not reported
    Schedule Revised Date: Not reported

  CERS:
    Name: BENJAMIN FRANKLIN EL
    Address: 19661 ORANGE TERRACE PARKWAY
    City,State,Zip: RIVERSIDE, CA 92508-3256
    Site ID: 335073
    CERS ID: 33820017
    CERS Description: School Investigation

  Affiliation:
    Affiliation Type Desc: Supervisor
    Entity Name: JAVIER HINOJOSA
    Entity Title: Not reported
    Affiliation Address: Not reported
    Affiliation City: Not reported
    Affiliation State: Not reported
    Affiliation Country: Not reported
    Affiliation Zip: Not reported
    Affiliation Phone: Not reported

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

DRAFT

Database(s)

EDR ID Number
EPA ID Number

5	**MARCH USAR**	**ENVIROSTOR**	S107736677
East	**3,545 ACRES; E. OF RIVERSIDE**		**N/A**
1/2-1	**RIVERSIDE, CA 92518**		
0.785 mi.			
4147 ft.			

Relative:
Lower

Actual:
1567 ft.

ENVIROSTOR:

Name:	MARCH USAR
Address:	3,545 ACRES; E. OF RIVERSIDE
City,State,Zip:	RIVERSIDE, CA 92518
Facility ID:	71000040
Status:	No Further Action
Status Date:	04/05/2005
Site Code:	400685
Site Type:	Military Evaluation
Site Type Detailed:	Open Base
Acres:	3545
NPL:	NO
Regulatory Agencies:	RWQCB 8 - Santa Ana
Lead Agency:	RWQCB 8 - Santa Ana
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	64
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	Not reported
Longitude:	Not reported
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	400685
Alias Type:	Project Code (Site Code)
Alias Name:	71000040
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

6   **RIVERSIDE ELEMENTARY SCHOOL NO. 29**   **ENVIROSTOR**   S107737159
WSW   **WOOD ROAD/BERT ROAD**   **SCH**   N/A
1/2-1   **RIVERSIDE, CA 92504**
0.840 mi.
4433 ft.

Relative: ENVIROSTOR:
Lower   Name: RIVERSIDE ELEMENTARY SCHOOL NO. 29
Actual: Address: WOOD ROAD/BERT ROAD
1602 ft.   City,State,Zip: RIVERSIDE, CA 92504
                     Facility ID: 33010028
                     Status: No Further Action
                     Status Date: 10/04/2001
                     Site Code: 404063
                     Site Type: School Investigation
                     Site Type Detailed: School
                     Acres: 10
                     NPL: NO
                     Regulatory Agencies: DTSC
                     Lead Agency: DTSC
                     Program Manager: Not reported
                     Supervisor: Javier Hinojosa
                     Division Branch: Southern California Schools & Brownfields Outreach
                     Assembly: 61
                     Senate: 31
                     Special Program: Not reported
                     Restricted Use: NO
                     Site Mgmt Req: NONE SPECIFIED
                     Funding: School District
                     Latitude: 33.9119
                     Longitude: -117.4008
                     APN: NONE SPECIFIED
                     Past Use: AGRICULTURAL - ROW CROPS
                     Potential COC: Chromium VI DDT DDE Nickel (soluble salts
                     Confirmed COC: NONE SPECIFIED
                     Potential Description: SOIL
                     Alias Name: RIVERSIDE ELEMENTARY SCH. #29 (PROPOSED)
                     Alias Type: Alternate Name
                     Alias Name: RIVERSIDE ELEMENTARY SCHOOL #29
                     Alias Type: Alternate Name
                     Alias Name: RIVERSIDE UNIFIED SCHOOL DISTRICT
                     Alias Type: Alternate Name
                     Alias Name: RIVERSIDE USD-ELEM #29/CDE
                     Alias Type: Alternate Name
                     Alias Name: RIVERSIDE USD-PROP. ELEM SCHOOL #29/VCA
                     Alias Type: Alternate Name
                     Alias Name: 404024
                     Alias Type: Project Code (Site Code)
                     Alias Name: 404063
                     Alias Type: Project Code (Site Code)
                     Alias Name: 33010028
                     Alias Type: Envirostor ID Number

                 Completed Info:
                     Completed Area Name: PROJECT WIDE
                     Completed Sub Area Name: Not reported
                     Completed Document Type: Environmental Oversight Agreement
                     Completed Date: 11/21/2000
                     Comments: Not reported

RIVERSIDE ELEMENTARY SCHOOL NO. 29 (Continued)   **S107737159**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/05/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/12/2015
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/04/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/03/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	04/01/2001
Comments:	wp approved

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Name:	RIVERSIDE ELEMENTARY SCHOOL NO. 29
Address:	WOOD ROAD/BERT ROAD
City,State,Zip:	RIVERSIDE, CA 92504
Facility ID:	33010028
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	DTSC
Lead Agency:	DTSC
Lead Agency Description:	* DTSC
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach

DRAFT

MAP FINDINGS

Map ID
Direction
Distance   EDR ID Number
Elevation   Site   Database(s)   EPA ID Number

RIVERSIDE ELEMENTARY SCHOOL NO. 29 (Continued)   S107737159

Site Code:	404063
Assembly:	61
Senate:	31
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	10/04/2001
Restricted Use:	NO
Funding:	School District
Latitude:	33.9119
Longitude:	-117.4008
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	Chromium VI, Chromium VI, DDT, DDE, Nickel (soluble salts
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	RIVERSIDE ELEMENTARY SCH. #29 (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	RIVERSIDE ELEMENTARY SCHOOL #29
Alias Type:	Alternate Name
Alias Name:	RIVERSIDE UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	RIVERSIDE USD-ELEM #29/CDE
Alias Type:	Alternate Name
Alias Name:	RIVERSIDE USD-PROP. ELEM SCHOOL #29/VCA
Alias Type:	Alternate Name
Alias Name:	404024
Alias Type:	Project Code (Site Code)
Alias Name:	404063
Alias Type:	Project Code (Site Code)
Alias Name:	33010028
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	11/21/2000
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	10/05/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/12/2015
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	10/04/2001
Comments:	Not reported

Completed Area Name:	PROJECT WIDE

Map ID
Direction
Distance
Elevation   Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

RIVERSIDE ELEMENTARY SCHOOL NO. 29 (Continued)   **S107737159**

Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/03/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Workplan
Completed Date:	04/01/2001
Comments:	wp approved
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ORPHAN SUMMARY

DRAFT

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MORENO VALLEY	S107539751		ON CACTUS	92518	CDL
MORENO VALLEY	S125431918	ALESSANDRO PROPERTIES	14044 OLD 215 FRONTAGE ROAD AN	92553	ENVIROSTOR, VCP
RIVERSIDE	S107540987		VACANT LOT ON JOHN F KENNEDY D		CDL
RIVERSIDE	S107526644		1/4 ML W OF KRAMEDIA ST & BART	92507	CDL

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021   Source: EPA
Date Data Arrived at EDR: 05/03/2021   Telephone: N/A
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 06/29/2021
Number of Days to Update: 16   Next Scheduled EDR Contact: 10/11/2021
                                               Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1   EPA Region 6
Telephone 617-918-1143   Telephone: 214-655-6659

EPA Region 3   EPA Region 7
Telephone 215-814-5418   Telephone: 913-551-7247

EPA Region 4   EPA Region 8
Telephone 404-562-8033   Telephone: 303-312-6774

EPA Region 5   EPA Region 9
Telephone 312-886-6686   Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites
A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021   Source: EPA
Date Data Arrived at EDR: 05/03/2021   Telephone: N/A
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 06/29/2021
Number of Days to Update: 16   Next Scheduled EDR Contact: 10/11/2021
                                               Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens
Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions
    The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the
    EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the
    NPL where no further response is appropriate.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing
    A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive
    Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities
    Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/30/2021	Telephone: 703-603-8704
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/23/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System
    SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites,
    and remedial activities performed in support of EPA's Superfund Program across the United States. The list was
    formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous
    waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons,
    pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).
    This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the
    sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021   Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021   Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 06/21/2021
Number of Days to Update: 57   Next Scheduled EDR Contact: 10/04/2021
                                                 Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021   Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021   Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 06/21/2021
Number of Days to Update: 57   Next Scheduled EDR Contact: 10/04/2021
                                                 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021   Source: Department of the Navy
Date Data Arrived at EDR: 05/13/2021   Telephone: 843-820-7326
Date Made Active in Reports: 08/03/2021   Last EDR Contact: 05/05/2021
Number of Days to Update: 82   Next Scheduled EDR Contact: 08/23/2021
                                                 Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021   Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021   Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 05/21/2021
Number of Days to Update: 85   Next Scheduled EDR Contact: 09/06/2021
                                                 Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021   Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021   Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 05/21/2021
Number of Days to Update: 85   Next Scheduled EDR Contact: 09/06/2021
                                                 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
> Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 03/24/2021	Telephone: 202-267-2180
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites
> Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database
> The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/23/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System
> Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 05/11/2021	Telephone: 916-341-6320
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El
Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas,
Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control
Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/06/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2011
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information,
please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
    Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003   Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003   Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003   Last EDR Contact: 07/18/2011
Number of Days to Update: 14   Next Scheduled EDR Contact: 10/31/2011
                                            Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
    Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management
    system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021   Telephone: see region list
Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                            Data Release Frequency: Quarterly

LUST REG 7: Leaking Underground Storage Tank Case Listing
    Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004   Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004   Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004   Last EDR Contact: 08/01/2011
Number of Days to Update: 27   Next Scheduled EDR Contact: 11/14/2011
                                            Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
    California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer
    to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005   Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005   Telephone: 909-782-4496
Date Made Active in Reports: 03/28/2005   Last EDR Contact: 08/15/2011
Number of Days to Update: 41   Next Scheduled EDR Contact: 11/28/2011
                                            Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
    Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources
    Control Board's LUST database.

Date of Government Version: 03/01/2001   Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001   Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001   Last EDR Contact: 09/26/2011
Number of Days to Update: 28   Next Scheduled EDR Contact: 01/09/2012
                                            Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
    LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020   Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020   Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020   Last EDR Contact: 06/11/2021
Number of Days to Update: 84   Next Scheduled EDR Contact: 11/01/2021
                                            Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
    A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
    Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
    The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
    The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
    The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
    The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
    The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

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SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 08/15/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board, Lahontan Region
Date Data Arrived at EDR: 09/07/2004	Telephone: 530-542-5574
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 08/15/2011
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004	Source: California Regional Quality Control Board, Colorado River Basin Region
Date Data Arrived at EDR: 11/29/2004	Telephone: 760-346-7491
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 08/01/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008	Source: California Region Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 04/03/2008	Telephone: 951-782-3298
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 09/12/2011
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 09/11/2007	Telephone: 858-467-2980
Date Made Active in Reports: 09/28/2007	Last EDR Contact: 08/08/2011
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/21/2011
	Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021	Source: FEMA
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-646-5797
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive
Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration
by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the
decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed
for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are
cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved
Orders.

Date of Government Version: 03/05/2021　　Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021　　Telephone: 916-327-7844
Date Made Active in Reports: 04/01/2021　　Last EDR Contact: 06/04/2021
Number of Days to Update: 23　　Next Scheduled EDR Contact: 09/20/2021
　　Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021　　Source: SWRCB
Date Data Arrived at EDR: 03/09/2021　　Telephone: 916-341-5851
Date Made Active in Reports: 03/31/2021　　Last EDR Contact: 06/03/2021
Number of Days to Update: 22　　Next Scheduled EDR Contact: 09/20/2021
　　Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021　　Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021　　Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021　　Last EDR Contact: 06/03/2021
Number of Days to Update: 21　　Next Scheduled EDR Contact: 09/20/2021
　　Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016　　Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016　　Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016　　Last EDR Contact: 06/08/2021
Number of Days to Update: 69　　Next Scheduled EDR Contact: 09/27/2021
　　Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian
land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
and Tribal Nations)

Date of Government Version: 10/02/2020　　Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020　　Telephone: 404-562-9424
Date Made Active in Reports: 03/12/2021　　Last EDR Contact: 06/17/2021
Number of Days to Update: 84　　Next Scheduled EDR Contact: 11/01/2021
　　Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian
land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020　　Source: EPA Region 10
Date Data Arrived at EDR: 12/16/2020　　Telephone: 206-553-2857
Date Made Active in Reports: 03/12/2021　　Last EDR Contact: 06/11/2021
Number of Days to Update: 86　　Next Scheduled EDR Contact: 11/01/2021
　　Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3368
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020	Source: EPA Region 5
Date Data Arrived at EDR: 12/16/2020	Telephone: 312-886-6136
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 06/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6137
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents
have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for
DTSC's costs.

Date of Government Version: 04/23/2021   Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021   Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021   Last EDR Contact: 07/22/2021
Number of Days to Update: 80   Next Scheduled EDR Contact: 11/08/2021
                                              Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015   Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015   Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016   Last EDR Contact: 06/15/2021
Number of Days to Update: 142   Next Scheduled EDR Contact: 10/04/2021
                                              Data Release Frequency: No Update Planned

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008   Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008   Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008   Last EDR Contact: 07/08/2021
Number of Days to Update: 27   Next Scheduled EDR Contact: 07/20/2009
                                              Data Release Frequency: No Update Planned

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA
Process.

Date of Government Version: 03/22/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/23/2021   Telephone: 916-323-7905
Date Made Active in Reports: 06/10/2021   Last EDR Contact: 06/17/2021
Number of Days to Update: 79   Next Scheduled EDR Contact: 10/04/2021
                                              Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence
or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these
properties takes development pressures off of undeveloped, open land, and both improves and protects the environment.
Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields
grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on
Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from
Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information
is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/15/2021   Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/16/2021   Telephone: 202-566-2777
Date Made Active in Reports: 06/10/2021   Last EDR Contact: 06/10/2021
Number of Days to Update: 86   Next Scheduled EDR Contact: 09/27/2021
                                              Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
    Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the
    Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed
    of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information,
    SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter
    15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure
    Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 07/20/2021
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database
    A listing of recycling facilities in California.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
    A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 11/23/2020	Telephone: 916-341-6422
Date Made Active in Reports: 02/08/2021	Last EDR Contact: 06/15/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
    Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/20/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
    An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258
    Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
    A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside
    County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/13/2021
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup
has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this
web site as a public service. It contains addresses of some locations where law enforcement agencies reported
they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites.
In most cases, the source of the entries is not the Department, and the Department has not verified the entry
and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example,
contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing
A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and
maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained.
The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county
source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under
the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage
tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent
Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination.
CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/02/2021   Source: DTSC and SWRCB
Date Data Arrived at EDR: 03/03/2021   Telephone: 916-323-3400
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 05/28/2021
Number of Days to Update: 77   Next Scheduled EDR Contact: 09/13/2021
                                           Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021   Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/24/2021   Telephone: 202-366-4555
Date Made Active in Reports: 06/17/2021   Last EDR Contact: 06/17/2021
Number of Days to Update: 85   Next Scheduled EDR Contact: 10/04/2021
                                           Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/04/2021   Source: Office of Emergency Services
Date Data Arrived at EDR: 04/20/2021   Telephone: 916-845-8400
Date Made Active in Reports: 07/07/2021   Last EDR Contact: 07/15/2021
Number of Days to Update: 78   Next Scheduled EDR Contact: 11/01/2021
                                           Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021   Source: State Water Qualilty Control Board
Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 22   Next Scheduled EDR Contact: 09/20/2021
                                           Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 22   Next Scheduled EDR Contact: 09/20/2021
                                           Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
>Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
>RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites
>The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-528-4285
Date Made Active in Reports: 04/05/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 47	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

DOD: Department of Defense Sites
>This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/13/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
>Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/09/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
>The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide
proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement
matters relating to facilities with alleged violations identified as either significant or high priority. Being
on the Watch List does not mean that the facility has actually violated the law only that an investigation by
EPA or a state or local environmental agency has led those organizations to allege that an unproven violation
has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged
violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and
local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action
Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe
contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but
have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation.
Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the
TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant
site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and
land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans
When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers
of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement
and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES)
program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: No Update Planned

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA,
TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the
Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which
possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency,
EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019   Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020   Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021   Last EDR Contact: 05/27/2021
Number of Days to Update: 70   Next Scheduled EDR Contact: 09/13/2021
                                            Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017   Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019   Telephone: N/A
Date Made Active in Reports: 11/11/2019   Last EDR Contact: 05/27/2021
Number of Days to Update: 251   Next Scheduled EDR Contact: 09/13/2021
                                            Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019   Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019   Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020   Last EDR Contact: 05/07/2021
Number of Days to Update: 96   Next Scheduled EDR Contact: 08/16/2021
                                            Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S.
Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019   Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019   Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019   Last EDR Contact: 06/22/2021
Number of Days to Update: 84   Next Scheduled EDR Contact: 10/11/2021
                                            Data Release Frequency: No Update Planned

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The
information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA
(Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions
are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters
with updated records, it was decided to create a HIST FTTS database. It included records that may not be included
in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006   Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007   Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007   Last EDR Contact: 12/17/2007
Number of Days to Update: 40   Next Scheduled EDR Contact: 03/17/2008
                                            Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA
regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation
of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some
EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing
EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that
may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

FUSRAP: Formerly Utilized Sites Remedial Action Program
DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRAFT

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: No Update Planned

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018	Source: Department of Defense
Date Data Arrived at EDR: 07/02/2020	Telephone: 703-704-1564
Date Made Active in Reports: 09/17/2020	Last EDR Contact: 07/07/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/04/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/06/2021	Telephone: 202-564-2280
Date Made Active in Reports: 06/25/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels
Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021	Source: EPA
Date Data Arrived at EDR: 05/14/2021	Telephone: 800-385-6164
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of
Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste
Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 06/10/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 05/14/2021
Number of Days to Update: 64	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes:
power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries
and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and
garment services.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of
Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure
that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the
owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
      A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021   Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021   Telephone: 916-322-1080
Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
      The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting
      and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the
      state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/29/2021   Source: Department of Public Health
Date Data Arrived at EDR: 03/03/2021   Telephone: 916-558-1784
Date Made Active in Reports: 05/20/2021   Last EDR Contact: 05/28/2021
Number of Days to Update: 78   Next Scheduled EDR Contact: 09/13/2021
                                                Data Release Frequency: Varies

NPDES: NPDES Permits Listing
      A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/11/2021   Telephone: 916-445-9379
Date Made Active in Reports: 07/27/2021   Last EDR Contact: 05/11/2021
Number of Days to Update: 77   Next Scheduled EDR Contact: 08/23/2021
                                                Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
      A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses
      and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers;
      Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2021   Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 03/03/2021   Telephone: 916-445-4038
Date Made Active in Reports: 05/20/2021   Last EDR Contact: 05/28/2021
Number of Days to Update: 78   Next Scheduled EDR Contact: 09/13/2021
                                                Data Release Frequency: Quarterly

PROC: Certified Processors Database
      A listing of certified processors.

Date of Government Version: 03/09/2021   Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021   Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021   Last EDR Contact: 06/04/2021
Number of Days to Update: 22   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
      Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the
      Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2021   Telephone: 916-445-3846
Date Made Active in Reports: 06/01/2021   Last EDR Contact: 06/08/2021
Number of Days to Update: 77   Next Scheduled EDR Contact: 09/27/2021
                                                Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021   Source: Deaprtment of Conservation
Date Data Arrived at EDR: 03/09/2021   Telephone: 916-445-2408
Date Made Active in Reports: 03/31/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 22   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021   Source: State Water Resource Control Board
Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined
pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality
Control Board revealed the existence of previously unidentified waste sites. The water boards review found that
more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019   Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 01/07/2020   Telephone: 559-445-5577
Date Made Active in Reports: 03/09/2020   Last EDR Contact: 07/01/2021
Number of Days to Update: 62   Next Scheduled EDR Contact: 10/18/2021
                                                Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007   Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007   Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007   Last EDR Contact: 05/14/2021
Number of Days to Update: 9   Next Scheduled EDR Contact: 08/30/2021
                                                Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009   Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009   Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009   Last EDR Contact: 06/15/2021
Number of Days to Update: 13   Next Scheduled EDR Contact: 10/04/2021
                                                Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
    Produced water ponds sites

    Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
    Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
    Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
    Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                    Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
    Sampling point - public sites

    Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
    Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
    Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
    Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                    Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
    Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries,
    and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC
    wells, water supply wells, etc?) being monitored

    Date of Government Version: 03/08/2021   Source: State Water Resources Control Board
    Date Data Arrived at EDR: 03/09/2021   Telephone: 866-480-1028
    Date Made Active in Reports: 03/30/2021   Last EDR Contact: 06/03/2021
    Number of Days to Update: 21   Next Scheduled EDR Contact: 09/20/2021
                                                    Data Release Frequency: Varies

PCS ENF: Enforcement data
    No description is available for this data

    Date of Government Version: 12/31/2014   Source: EPA
    Date Data Arrived at EDR: 02/05/2015   Telephone: 202-564-2497
    Date Made Active in Reports: 03/06/2015   Last EDR Contact: 06/30/2021
    Number of Days to Update: 29   Next Scheduled EDR Contact: 10/18/2021
                                                    Data Release Frequency: No Update Planned

PCS INACTIVE: Listing of Inactive PCS Permits
    An inactive permit is a facility that has shut down or is no longer discharging.

    Date of Government Version: 11/05/2014   Source: EPA
    Date Data Arrived at EDR: 01/06/2015   Telephone: 202-564-2496
    Date Made Active in Reports: 05/06/2015   Last EDR Contact: 06/30/2021
    Number of Days to Update: 120   Next Scheduled EDR Contact: 10/18/2021
                                                    Data Release Frequency: No Update Planned

PCS: Permit Compliance System
    PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination
    System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES
    facilities.

    Date of Government Version: 07/14/2011   Source: EPA, Office of Water
    Date Data Arrived at EDR: 08/05/2011   Telephone: 202-564-2496
    Date Made Active in Reports: 09/29/2011   Last EDR Contact: 06/30/2021
    Number of Days to Update: 55   Next Scheduled EDR Contact: 10/18/2021
                                                    Data Release Frequency: No Update Planned

MINES MRDS: Mineral Resources Data System
    Mineral Resources Data System

Date of Government Version: 04/06/2018   Source: USGS
Date Data Arrived at EDR: 10/21/2019   Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019   Last EDR Contact: 05/27/2021
Number of Days to Update: 3   Next Scheduled EDR Contact: 09/06/2021
     Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
     DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and
     manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021   Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/09/2021   Telephone: 916-324-2444
Date Made Active in Reports: 04/20/2021   Last EDR Contact: 06/29/2021
Number of Days to Update: 11   Next Scheduled EDR Contact: 10/18/2021
     Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
     The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants)
     compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's
     to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture
     of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production,
     such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds
     are potentially hazardous to human health and the environment. The byproduct from this process was frequently
     disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil
     and groundwater contamination.

Date of Government Version: N/A   Source: EDR, Inc.
Date Data Arrived at EDR: N/A   Telephone: N/A
Date Made Active in Reports: N/A   Last EDR Contact: N/A
Number of Days to Update: N/A   Next Scheduled EDR Contact: N/A
     Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
     EDR has searched selected national collections of business directories and has collected listings of potential
     gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited
     to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station
     establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station,
     filling station, auto, automobile repair, auto service station, service station, etc. This database falls within
     a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents
     unique and sometimes proprietary data about past sites and operations that typically create environmental concerns,
     but may not show up in current government records searches.

Date of Government Version: N/A   Source: EDR, Inc.
Date Data Arrived at EDR: N/A   Telephone: N/A
Date Made Active in Reports: N/A   Last EDR Contact: N/A
Number of Days to Update: N/A   Next Scheduled EDR Contact: N/A
     Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners
     EDR has searched selected national collections of business directories and has collected listings of potential
     dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources
     that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were
     not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls
     within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort
     presents unique and sometimes proprietary data about past sites and operations that typically create environmental
     concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/29/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
    Cupa Facility List

    Date of Government Version: 02/02/2021   Source: Amador County Environmental Health
    Date Data Arrived at EDR: 02/04/2021   Telephone: 209-223-6439
    Date Made Active in Reports: 04/23/2021   Last EDR Contact: 07/26/2021
    Number of Days to Update: 78   Next Scheduled EDR Contact: 11/15/2021
    Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
    Cupa facility list.

    Date of Government Version: 04/21/2017   Source: Public Health Department
    Date Data Arrived at EDR: 04/25/2017   Telephone: 530-538-7149
    Date Made Active in Reports: 08/09/2017   Last EDR Contact: 06/29/2021
    Number of Days to Update: 106   Next Scheduled EDR Contact: 10/18/2021
    Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
    Cupa Facility Listing

    Date of Government Version: 06/15/2021   Source: Calveras County Environmental Health
    Date Data Arrived at EDR: 06/16/2021   Telephone: 209-754-6399
    Date Made Active in Reports: 07/02/2021   Last EDR Contact: 06/15/2021
    Number of Days to Update: 16   Next Scheduled EDR Contact: 10/04/2021
    Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
    Cupa facility list.

    Date of Government Version: 04/06/2020   Source: Health & Human Services
    Date Data Arrived at EDR: 04/23/2020   Telephone: 530-458-0396
    Date Made Active in Reports: 07/10/2020   Last EDR Contact: 07/26/2021
    Number of Days to Update: 78   Next Scheduled EDR Contact: 11/15/2021
    Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
    List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

    Date of Government Version: 04/21/2021   Source: Contra Costa Health Services Department
    Date Data Arrived at EDR: 04/22/2021   Telephone: 925-646-2286
    Date Made Active in Reports: 07/12/2021   Last EDR Contact: 07/20/2021
    Number of Days to Update: 81   Next Scheduled EDR Contact: 11/08/2021
    Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
    Cupa Facility list

Date of Government Version: 12/17/2020	Source: Del Norte County Environmental Health Division
Date Data Arrived at EDR: 01/28/2021	Telephone: 707-465-0426
Date Made Active in Reports: 04/16/2021	Last EDR Contact: 07/20/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
    CUPA facility list.

Date of Government Version: 05/10/2021	Source: El Dorado County Environmental Management Department
Date Data Arrived at EDR: 05/12/2021	Telephone: 530-621-6623
Date Made Active in Reports: 07/26/2021	Last EDR Contact: 07/20/2021
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
    Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021	Source: Dept. of Community Health
Date Data Arrived at EDR: 01/15/2021	Telephone: 559-445-3271
Date Made Active in Reports: 04/05/2021	Last EDR Contact: 06/23/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
    Cupa facility list

Date of Government Version: 01/22/2018	Source: Glenn County Air Pollution Control District
Date Data Arrived at EDR: 01/24/2018	Telephone: 830-934-6500
Date Made Active in Reports: 03/14/2018	Last EDR Contact: 07/13/2021
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
    CUPA facility list.

Date of Government Version: 05/17/2021	Source: Humboldt County Environmental Health
Date Data Arrived at EDR: 05/18/2021	Telephone: N/A
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/10/2021
Number of Days to Update: 2	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/14/2021	Source: San Diego Border Field Office
Date Data Arrived at EDR: 04/15/2021	Telephone: 760-339-2777
Date Made Active in Reports: 07/06/2021	Last EDR Contact: 07/13/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018	Source: Inyo County Environmental Health Services
Date Data Arrived at EDR: 04/03/2018	Telephone: 760-878-0238
Date Made Active in Reports: 06/14/2018	Last EDR Contact: 05/11/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 04/22/2021	Source: Kern County Public Health
Date Data Arrived at EDR: 04/30/2021	Telephone: 661-321-3000
Date Made Active in Reports: 07/19/2021	Last EDR Contact: 07/26/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 01/21/2021	Telephone: 661-862-8700
Date Made Active in Reports: 01/28/2021	Last EDR Contact: 07/26/2021
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary
for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program
as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration,
permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020	Source: Kings County Department of Public Health
Date Data Arrived at EDR: 01/26/2021	Telephone: 559-584-1411
Date Made Active in Reports: 04/14/2021	Last EDR Contact: 05/25/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
     Cupa facility list

     Date of Government Version: 05/10/2021   Source: Lake County Environmental Health
     Date Data Arrived at EDR: 05/12/2021   Telephone: 707-263-1164
     Date Made Active in Reports: 07/26/2021   Last EDR Contact: 07/06/2021
     Number of Days to Update: 75   Next Scheduled EDR Contact: 10/25/2021
                                                     Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
     Cupa facility list

     Date of Government Version: 07/31/2020   Source: Lassen County Environmental Health
     Date Data Arrived at EDR: 08/21/2020   Telephone: 530-251-8528
     Date Made Active in Reports: 11/09/2020   Last EDR Contact: 07/13/2021
     Number of Days to Update: 80   Next Scheduled EDR Contact: 11/01/2021
                                                     Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
     San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date
     of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former
     Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

     Date of Government Version: 03/30/2009   Source: N/A
     Date Data Arrived at EDR: 03/31/2009   Telephone: N/A
     Date Made Active in Reports: 10/23/2009   Last EDR Contact: 06/08/2021
     Number of Days to Update: 206   Next Scheduled EDR Contact: 09/27/2021
                                                     Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
     Industrial Waste and Underground Storage Tank Sites.

     Date of Government Version: 04/08/2021   Source: Department of Public Works
     Date Data Arrived at EDR: 04/13/2021   Telephone: 626-458-3517
     Date Made Active in Reports: 06/28/2021   Last EDR Contact: 06/29/2021
     Number of Days to Update: 76   Next Scheduled EDR Contact: 10/18/2021
                                                     Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
     Solid Waste Facilities in Los Angeles County.

     Date of Government Version: 04/12/2021   Source: La County Department of Public Works
     Date Data Arrived at EDR: 04/13/2021   Telephone: 818-458-5185
     Date Made Active in Reports: 06/28/2021   Last EDR Contact: 07/09/2021
     Number of Days to Update: 76   Next Scheduled EDR Contact: 10/25/2021
                                                     Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
     Landfills owned and maintained by the City of Los Angeles.

     Date of Government Version: 01/01/2021   Source: Engineering & Construction Division
     Date Data Arrived at EDR: 02/18/2021   Telephone: 213-473-7869
     Date Made Active in Reports: 05/10/2021   Last EDR Contact: 07/06/2021
     Number of Days to Update: 81   Next Scheduled EDR Contact: 10/25/2021
                                                     Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/17/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/16/2021	Telephone: 626-458-6973
Date Made Active in Reports: 04/21/2021	Last EDR Contact: 07/12/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/17/2021	Telephone: 213-978-3800
Date Made Active in Reports: 06/28/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/17/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/02/2021	Source: Community Health Services
Date Data Arrived at EDR: 04/16/2021	Telephone: 323-890-7806
Date Made Active in Reports: 07/06/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 07/06/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
     Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/13/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
     Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/28/2021	Telephone: 310-618-2973
Date Made Active in Reports: 07/13/2021	Last EDR Contact: 07/13/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
     A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary
     for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program
     as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration,
     permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020	Source: Madera County Environmental Health
Date Data Arrived at EDR: 08/12/2020	Telephone: 559-675-7823
Date Made Active in Reports: 10/23/2020	Last EDR Contact: 05/12/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
     Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 06/22/2021
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: No Update Planned

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
     A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021	Source: Department of Public Health
Date Data Arrived at EDR: 04/07/2021	Telephone: 707-463-4466
Date Made Active in Reports: 06/24/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
    CUPA facility list.

Date of Government Version: 05/13/2021	Source: Merced County Environmental Health
Date Data Arrived at EDR: 05/14/2021	Telephone: 209-381-1094
Date Made Active in Reports: 07/26/2021	Last EDR Contact: 05/12/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
    CUPA Facility List

Date of Government Version: 02/22/2021	Source: Mono County Health Department
Date Data Arrived at EDR: 03/02/2021	Telephone: 760-932-5580
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/02/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/06/3021
	Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
    CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021	Source: Monterey County Health Department
Date Data Arrived at EDR: 06/23/2021	Telephone: 831-796-1297
Date Made Active in Reports: 06/24/2021	Last EDR Contact: 06/22/2021
Number of Days to Update: 1	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
    A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/11/2017	Telephone: 707-253-4269
Date Made Active in Reports: 03/02/2017	Last EDR Contact: 05/18/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
    Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019	Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 09/09/2019	Telephone: 707-253-4269
Date Made Active in Reports: 10/31/2019	Last EDR Contact: 05/18/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
    CUPA facility list.

Date of Government Version: 04/28/2021 Source: Community Development Agency
Date Data Arrived at EDR: 04/29/2021 Telephone: 530-265-1467
Date Made Active in Reports: 07/15/2021 Last EDR Contact: 07/20/2021
Number of Days to Update: 77   Next Scheduled EDR Contact: 11/08/2021
             Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
  Petroleum and non-petroleum spills.

  Date of Government Version: 03/01/2021 Source: Health Care Agency
  Date Data Arrived at EDR: 04/30/2021 Telephone: 714-834-3446
  Date Made Active in Reports: 07/19/2021 Last EDR Contact: 07/29/2021
  Number of Days to Update: 80   Next Scheduled EDR Contact: 11/15/2021
             Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
  Orange County Underground Storage Tank Cleanups (LUST).

  Date of Government Version: 03/01/2021 Source: Health Care Agency
  Date Data Arrived at EDR: 05/03/2021 Telephone: 714-834-3446
  Date Made Active in Reports: 05/12/2021 Last EDR Contact: 04/29/2021
  Number of Days to Update: 9   Next Scheduled EDR Contact: 08/16/2021
             Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
  Orange County Underground Storage Tank Facilities (UST).

  Date of Government Version: 04/29/2021 Source: Health Care Agency
  Date Data Arrived at EDR: 04/30/2021 Telephone: 714-834-3446
  Date Made Active in Reports: 07/19/2021 Last EDR Contact: 07/29/2021
  Number of Days to Update: 80   Next Scheduled EDR Contact: 11/15/2021
             Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
  List includes aboveground tanks, underground tanks and cleanup sites.

  Date of Government Version: 05/25/2021 Source: Placer County Health and Human Services
  Date Data Arrived at EDR: 05/26/2021 Telephone: 530-745-2363
  Date Made Active in Reports: 06/01/2021 Last EDR Contact: 05/25/2021
  Number of Days to Update: 6   Next Scheduled EDR Contact: 09/13/2021
             Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
  Plumas County CUPA Program facilities.

  Date of Government Version: 03/31/2019 Source: Plumas County Environmental Health
  Date Data Arrived at EDR: 04/23/2019 Telephone: 530-283-6355
  Date Made Active in Reports: 06/26/2019 Last EDR Contact: 07/13/2021
  Number of Days to Update: 64   Next Scheduled EDR Contact: 11/01/2021
             Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021	Source: Department of Environmental Health
Date Data Arrived at EDR: 06/30/2021	Telephone: 951-358-5055
Date Made Active in Reports: 07/14/2021	Last EDR Contact: 06/08/2021
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021	Source: Department of Environmental Health
Date Data Arrived at EDR: 06/30/2021	Telephone: 951-358-5055
Date Made Active in Reports: 07/14/2021	Last EDR Contact: 06/07/2021
Number of Days to Update: 14	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/01/2021	Telephone: 916-875-8406
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/01/2021	Telephone: 916-875-8406
Date Made Active in Reports: 06/25/2021	Last EDR Contact: 06/23/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021	Source: San Benito County Environmental Health
Date Data Arrived at EDR: 04/29/2021	Telephone: N/A
Date Made Active in Reports: 05/03/2021	Last EDR Contact: 07/26/2021
Number of Days to Update: 4	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
    The database includes: HE58 - This report contains the business name, site address, business phone number, establishment
    'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information
    provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous
    waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information
    on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases
    in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination
    are included.)

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
    San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
    A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are
    closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without
    a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
    The listing contains all underground tank release cases and projects pertaining to properties contaminated with
    hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
    Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

DRAFT

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019   Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 03/29/2019   Telephone: 650-363-1921
Date Made Active in Reports: 05/29/2019   Last EDR Contact: 06/02/2021
Number of Days to Update: 61   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: No Update Planned

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011   Source: Santa Barbara County Public Health Department
Date Data Arrived at EDR: 09/09/2011   Telephone: 805-686-8167
Date Made Active in Reports: 10/07/2011   Last EDR Contact: 05/12/2021
Number of Days to Update: 28   Next Scheduled EDR Contact: 08/30/2021
                                                Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021   Source: Department of Environmental Health
Date Data Arrived at EDR: 02/26/2021   Telephone: 408-918-1973
Date Made Active in Reports: 05/19/2021   Last EDR Contact: 05/12/2021
Number of Days to Update: 82   Next Scheduled EDR Contact: 08/30/2021
                                                Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county.
Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005   Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005   Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005   Last EDR Contact: 03/23/2009
Number of Days to Update: 22   Next Scheduled EDR Contact: 06/22/2009
                                                Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014   Source: Department of Environmental Health
Date Data Arrived at EDR: 03/05/2014   Telephone: 408-918-3417
Date Made Active in Reports: 03/18/2014   Last EDR Contact: 05/18/2021
Number of Days to Update: 13   Next Scheduled EDR Contact: 09/06/2021
                                                Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020   Source: City of San Jose Fire Department
Date Data Arrived at EDR: 11/05/2020   Telephone: 408-535-7694
Date Made Active in Reports: 01/26/2021   Last EDR Contact: 07/27/2021
Number of Days to Update: 82   Next Scheduled EDR Contact: 11/15/2021
                                                Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
       CUPA facility listing.

Date of Government Version: 01/21/2017	Source: Santa Cruz County Environmental Health
Date Data Arrived at EDR: 02/22/2017	Telephone: 831-464-2761
Date Made Active in Reports: 05/23/2017	Last EDR Contact: 05/12/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
       Cupa Facility List.

Date of Government Version: 06/15/2017	Source: Shasta County Department of Resource Management
Date Data Arrived at EDR: 06/19/2017	Telephone: 530-225-5789
Date Made Active in Reports: 08/09/2017	Last EDR Contact: 05/12/2021
Number of Days to Update: 51	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
       A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 06/06/2019	Telephone: 707-784-6770
Date Made Active in Reports: 08/13/2019	Last EDR Contact: 05/25/2021
Number of Days to Update: 68	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: No Update Planned

UST SOLANO: Underground Storage Tanks
       Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 03/25/2021	Telephone: 707-784-6770
Date Made Active in Reports: 06/10/2021	Last EDR Contact: 06/22/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/12/2021
	Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
       Cupa Facility list

Date of Government Version: 07/02/2021	Source: County of Sonoma Fire & Emergency Services Department
Date Data Arrived at EDR: 07/06/2021	Telephone: 707-565-1174
Date Made Active in Reports: 07/14/2021	Last EDR Contact: 06/28/2021
Number of Days to Update: 8	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
       A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2021	Source: Department of Health Services
Date Data Arrived at EDR: 04/01/2021	Telephone: 707-565-6565
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 06/15/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
    Cupa facility list

    Date of Government Version: 05/14/2021   Source: Stanislaus County Department of Ennvironmental Protection
    Date Data Arrived at EDR: 05/17/2021   Telephone: 209-525-6751
    Date Made Active in Reports: 08/03/2021   Last EDR Contact: 07/06/2021
    Number of Days to Update: 78   Next Scheduled EDR Contact: 10/25/2021
                                                    Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
    Underground storage tank sites located in Sutter county.

    Date of Government Version: 03/01/2021   Source: Sutter County Environmental Health Services
    Date Data Arrived at EDR: 03/02/2021   Telephone: 530-822-7500
    Date Made Active in Reports: 05/19/2021   Last EDR Contact: 05/25/2021
    Number of Days to Update: 78   Next Scheduled EDR Contact: 09/13/2021
                                                    Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
    Cupa facilities

    Date of Government Version: 01/13/2021   Source: Tehama County Department of Environmental Health
    Date Data Arrived at EDR: 01/14/2021   Telephone: 530-527-8020
    Date Made Active in Reports: 04/06/2021   Last EDR Contact: 07/27/2021
    Number of Days to Update: 82   Next Scheduled EDR Contact: 11/15/2021
                                                    Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
    Cupa facility list

    Date of Government Version: 04/14/2021   Source: Department of Toxic Substances Control
    Date Data Arrived at EDR: 04/15/2021   Telephone: 760-352-0381
    Date Made Active in Reports: 07/06/2021   Last EDR Contact: 07/13/2021
    Number of Days to Update: 82   Next Scheduled EDR Contact: 11/01/2021
                                                    Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
    Cupa program facilities

    Date of Government Version: 04/26/2021   Source: Tulare County Environmental Health Services Division
    Date Data Arrived at EDR: 04/28/2021   Telephone: 559-624-7400
    Date Made Active in Reports: 07/13/2021   Last EDR Contact: 07/27/2021
    Number of Days to Update: 76   Next Scheduled EDR Contact: 11/15/2021
                                                    Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
    Cupa facility list

Date of Government Version: 04/23/2018   Source: Divison of Environmental Health
Date Data Arrived at EDR: 04/25/2018   Telephone: 209-533-5633
Date Made Active in Reports: 06/25/2018   Last EDR Contact: 07/13/2021
Number of Days to Update: 61   Next Scheduled EDR Contact: 11/01/2021
                                                Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
    The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste
    Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021   Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 04/22/2021   Telephone: 805-654-2813
Date Made Active in Reports: 07/12/2021   Last EDR Contact: 07/15/2021
Number of Days to Update: 81   Next Scheduled EDR Contact: 11/01/2021
                                                Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
    Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011   Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011   Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012   Last EDR Contact: 06/22/2021
Number of Days to Update: 49   Next Scheduled EDR Contact: 10/11/2021
                                                Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
    Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008   Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008   Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008   Last EDR Contact: 05/05/2021
Number of Days to Update: 37   Next Scheduled EDR Contact: 08/23/2021
                                                Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
    To protect public health and safety and the environment from potential exposure to disease causing agents, the
    Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and
    disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021   Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 04/21/2021   Telephone: 805-654-2813
Date Made Active in Reports: 04/23/2021   Last EDR Contact: 07/15/2021
Number of Days to Update: 2   Next Scheduled EDR Contact: 11/01/2021
                                                Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
    Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021   Source: Environmental Health Division
Date Data Arrived at EDR: 03/09/2021   Telephone: 805-654-2813
Date Made Active in Reports: 03/31/2021   Last EDR Contact: 06/04/2021
Number of Days to Update: 22   Next Scheduled EDR Contact: 09/20/2021
                                                Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
      Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021	Source: Yolo County Department of Health
Date Data Arrived at EDR: 04/01/2021	Telephone: 530-666-8646
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 06/22/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
      CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 04/22/2021	Telephone: 530-749-7523
Date Made Active in Reports: 05/12/2021	Last EDR Contact: 07/20/2021
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
      Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/11/2021	Telephone: 860-424-3375
Date Made Active in Reports: 07/28/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 08/23/2021
	Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
      Hazardous waste manifest information.

Date of Government Version: 12/31/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/10/2019	Telephone: N/A
Date Made Active in Reports: 05/16/2019	Last EDR Contact: 07/09/2021
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
      Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/29/2020	Telephone: 518-402-8651
Date Made Active in Reports: 07/10/2020	Last EDR Contact: 07/29/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
    Hazardous waste manifest information.

        Date of Government Version: 06/30/2018   Source: Department of Environmental Protection
        Date Data Arrived at EDR: 07/19/2019   Telephone: 717-783-8990
        Date Made Active in Reports: 09/10/2019   Last EDR Contact: 07/07/2021
        Number of Days to Update: 53   Next Scheduled EDR Contact: 10/25/2021
                                    Data Release Frequency: Annually

RI MANIFEST: Manifest information
    Hazardous waste manifest information

        Date of Government Version: 12/31/2019   Source: Department of Environmental Management
        Date Data Arrived at EDR: 02/11/2021   Telephone: 401-222-2797
        Date Made Active in Reports: 02/24/2021   Last EDR Contact: 05/13/2021
        Number of Days to Update: 13   Next Scheduled EDR Contact: 08/30/2021
                                    Data Release Frequency: Annually

WI MANIFEST: Manifest Information
    Hazardous waste manifest information.

        Date of Government Version: 05/31/2018   Source: Department of Natural Resources
        Date Data Arrived at EDR: 06/19/2019   Telephone: N/A
        Date Made Active in Reports: 09/03/2019   Last EDR Contact: 06/03/2021
        Number of Days to Update: 76   Next Scheduled EDR Contact: 09/20/2021
                                    Data Release Frequency: Annually

Oil/Gas Pipelines
    Source: Endeavor Business Media
    Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty
    Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases
    (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information
    is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its
    fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business
    Media.

Electric Power Transmission Line Data
    Source: Endeavor Business Media
    This map includes information copyrighted by Endeavor Business Media. This information is provided on a best
    effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any
    particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity
to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all
sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers,
and nursing homes - where individuals who are sensitive receptors are likely to be located.

    AHA Hospitals:
        Source: American Hospital Association, Inc.
        Telephone: 312-280-5991
        The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.
    Medical Centers: Provider of Services Listing
        Source: Centers for Medicare & Medicaid Services
        Telephone: 410-786-3000
        A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,
        a federal agency within the U.S. Department of Health and Human Services.
    Nursing Homes
        Source: National Institutes of Health
        Telephone: 301-594-6248
        Information on Medicare and Medicaid certified nursing homes in the United States.
    Public Schools
        Source: National Center for Education Statistics
        Telephone: 202-502-7300
        The National Center for Education Statistics' primary database on elementary
        and secondary public education in the United States. It is a comprehensive, annual, national statistical
        database of all public elementary and secondary schools and school districts, which contains data that are
        comparable across all states.

Private Schools
   Source: National Center for Education Statistics
   Telephone: 202-502-7300
   The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
   Source: Department of Social Services
   Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
   Source: FEMA
   Telephone: 877-336-2627
   Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
   Source: Department of Fish and Wildlife
   Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
   Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LEWIS-MERIDIAN PARK LLC, UPPER PLATEAU
FORMER MARCH AIR FORCE BASE - ORDINANCE STRGE AREA
RIVERSIDE, CA 92508

TARGET PROPERTY COORDINATES

Latitude (North):	33.906914 - 33˚ 54' 24.89''
Longitude (West):	117.308836 - 117˚ 18' 31.81''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	471447.9
UTM Y (Meters):	3751683.8
Elevation:	1735 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641312 RIVERSIDE EAST, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

Target Property Elevation: 1735 ft.
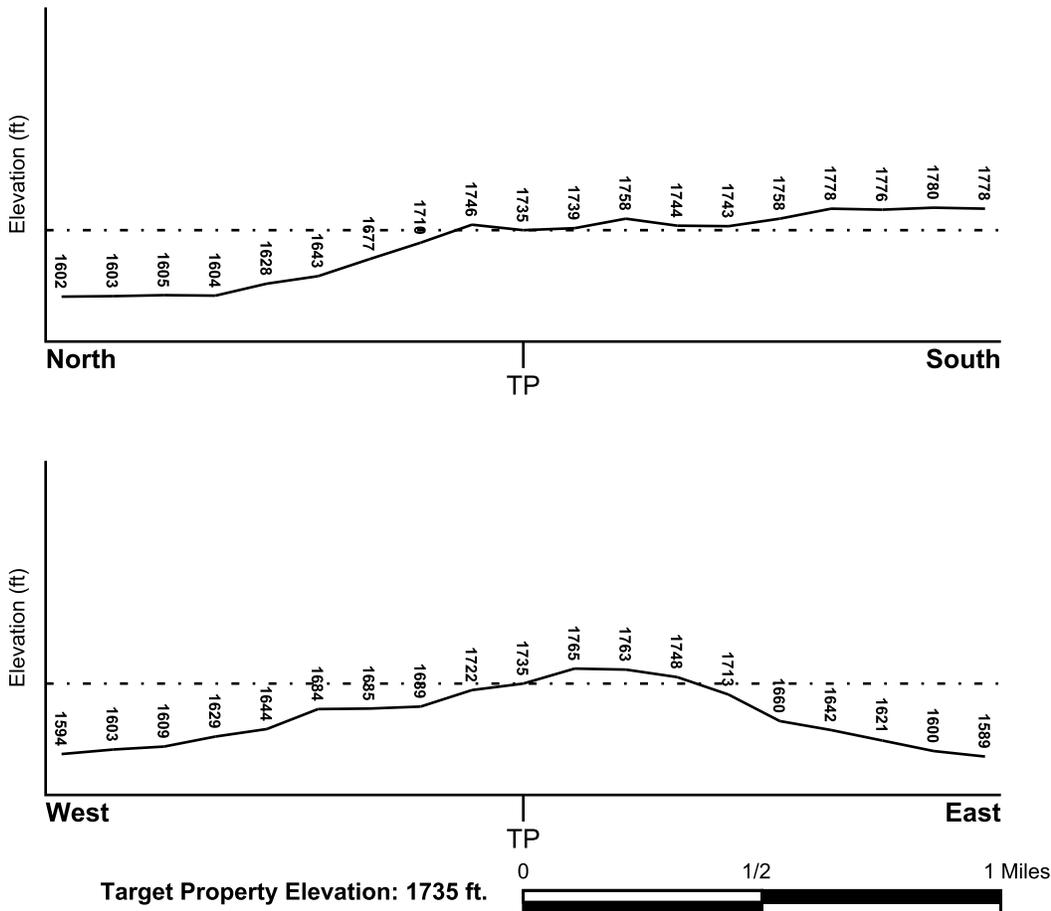
Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06065C0745G	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
06065C0740G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:
Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT   GEOLOGIC AGE IDENTIFICATION

Era: Mesozoic   Category: Plutonic and Intrusive Rocks
System: Cretaceous
Series: Cretaceous granitic rocks
Code: Kg   *(decoded above as Era, System & Series)*

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

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Legend:
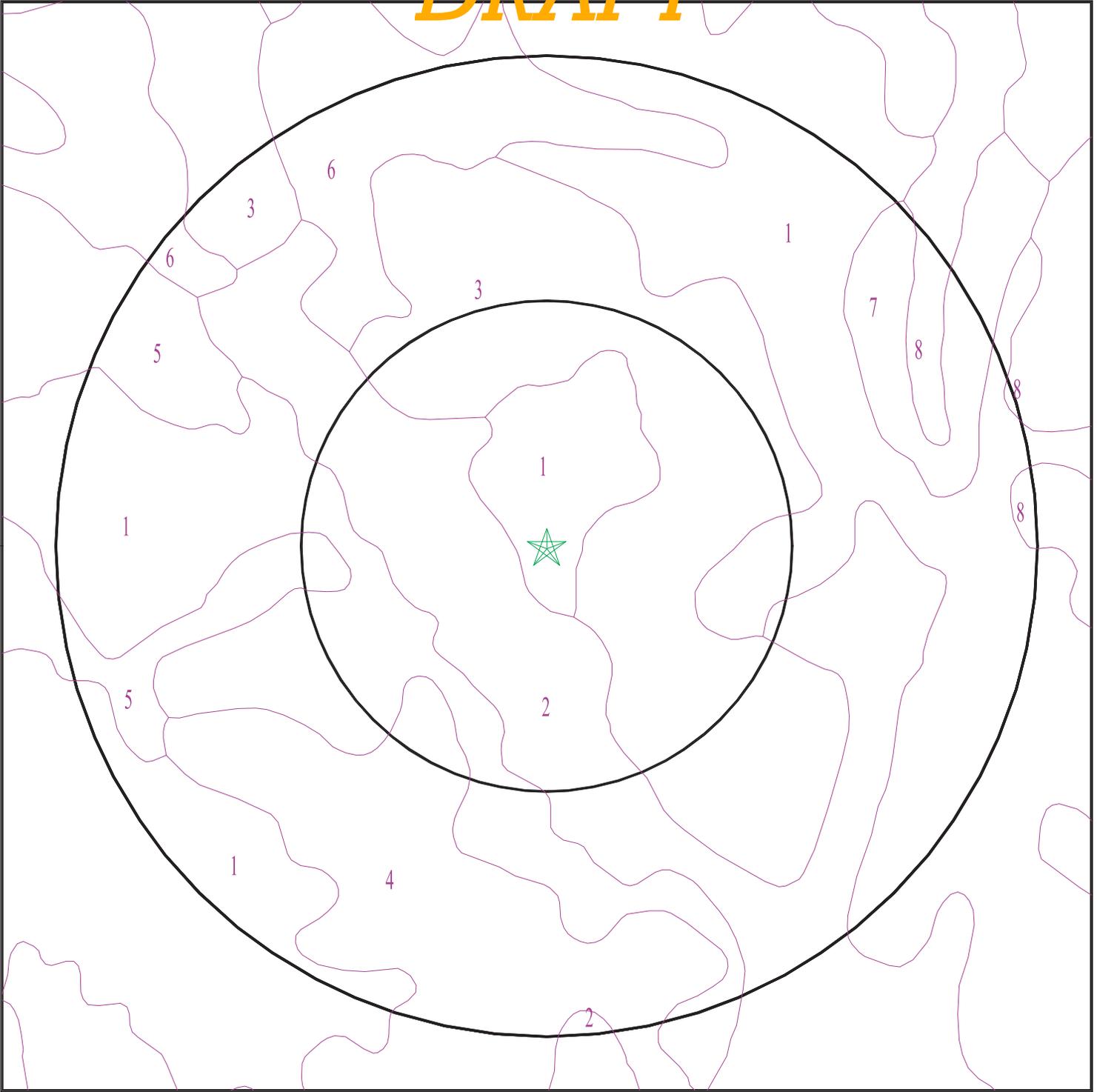
★ Target Property

/\/ SSURGO Soil

/\/ Water
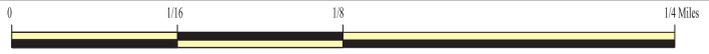
Scale: 0 — 1/16 — 1/8 — 1/4 Miles

SITE NAME:	Lewis-Meridian Park LLC, Upper Plateau
ADDRESS:	Former March Air Force Base - Ordinance Strge Area
	Riverside CA 92508
LAT/LONG:	33.906914 / 117.308836

CLIENT:	Leighton Consulting
CONTACT:	Robert Blaine Hansen
INQUIRY #:	6607282.2s
DATE:	August 04, 2021 8:06 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: FALLBROOK

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

							Saturated hydraulic	

<table>
<tr><th colspan="9">Soil Layer Information</th></tr>
<tr><th colspan="3">Boundary</th><th></th><th colspan="3">Classification</th><th rowspan="2">Saturated hydraulic conductivity micro m/sec</th><th rowspan="2">Soil Reaction (pH)</th></tr>
<tr><th>Layer</th><th>Upper</th><th>Lower</th><th>Soil Texture Class</th><th>AASHTO Group</th><th colspan="2">Unified Soil</th></tr>
<tr><td>1</td><td>0 inches</td><td>5 inches</td><td>fine sandy loam</td><td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td><td colspan="2">Not reported</td><td>Max: 0.42 Min: 0</td><td>Max: Min:</td></tr>
<tr><td>2</td><td>5 inches</td><td>18 inches</td><td>sandy clay loam</td><td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td><td colspan="2">Not reported</td><td>Max: 0.42 Min: 0</td><td>Max: Min:</td></tr>
<tr><td>3</td><td>18 inches</td><td>22 inches</td><td>weathered bedrock</td><td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td><td colspan="2">Not reported</td><td>Max: 0.42 Min: 0</td><td>Max: Min:</td></tr>
</table>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			**Classification**		**Saturated hydraulic conductivity micro m/sec**	**Soil Reaction (pH)**
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**		
1	0 inches	14 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	14 inches	24 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	24 inches	27 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	7 inches	18 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	18 inches	22 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high
                                                water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			**Classification**		**Saturated hydraulic conductivity micro m/sec**	**Soil Reaction (pH)**
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	7 inches	18 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	18 inches	22 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 5

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	7 inches	18 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	18 inches	22 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			**Classification**		**Saturated hydraulic conductivity micro m/sec**	**Soil Reaction (pH)**
Layer	**Upper**	**Lower**	**Soil Texture Class**	**AASHTO Group**	**Unified Soil**		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	7 inches	18 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	18 inches	22 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: VISTA

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information

Layer	Boundary Upper	Boundary Lower	Soil Texture Class	Classification AASHTO Group	Classification Unified Soil	Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	14 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	14 inches	24 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0.42 Min: 0	Max: Min:
3	24 inches	27 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	Not reported	Max: 0.42 Min: 0	Max: Min:

Soil Map ID: 8

Soil Component Name: Cieneba

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information

Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Boundary			**Classification**			
1	0 inches	14 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0	Max: Min:
2	14 inches	22 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

DRAFT

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

DRAFT

Legend:
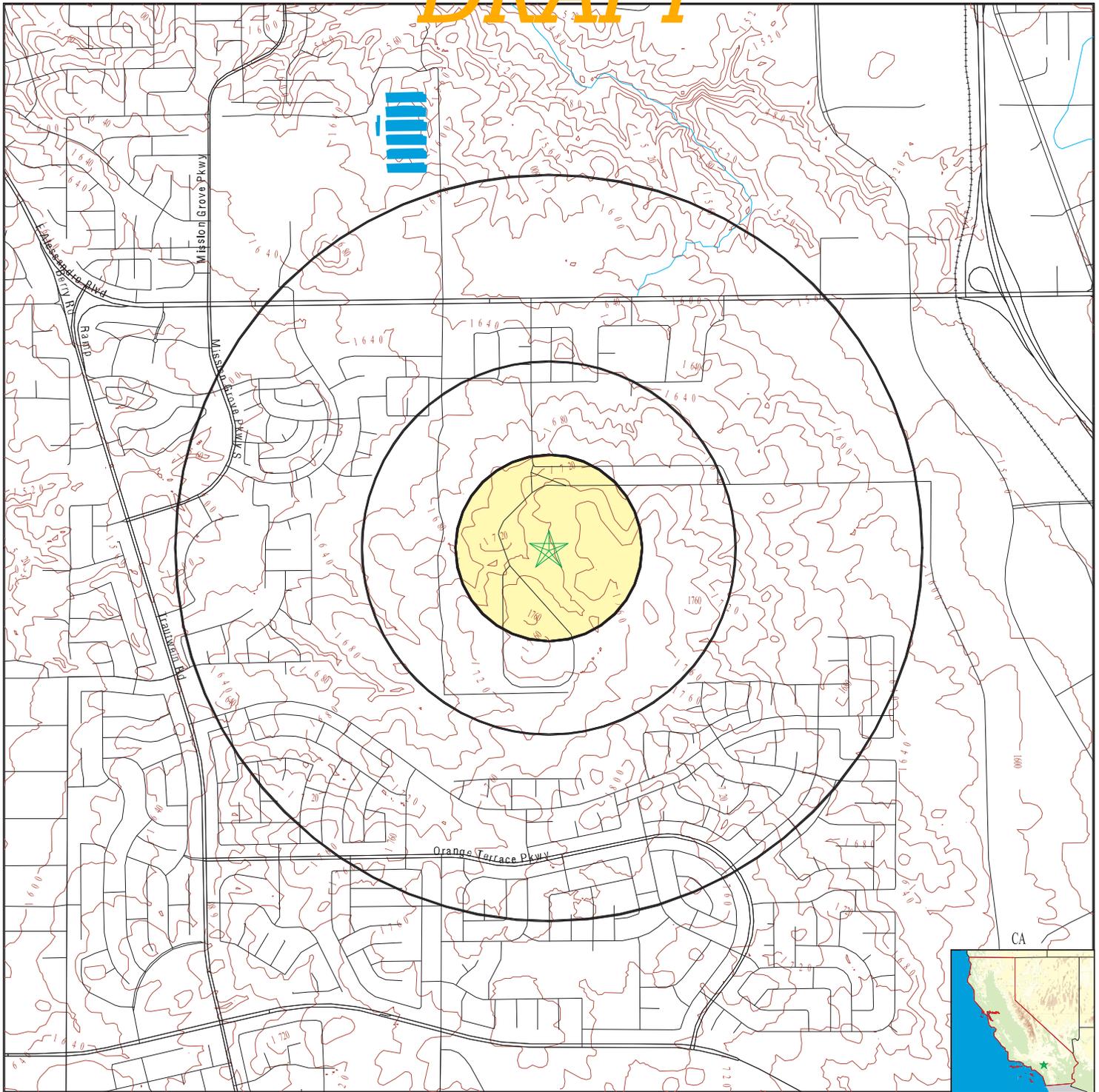
- ⋀ County Boundary
- ⋀ Major Roads
- ⋀ Contour Lines
- ⋀ Earthquake Fault Lines
- ◎ Earthquake epicenter, Richter 5 or greater
- Ⓦ Water Wells
- Ⓟ Public Water Supply Wells
- ● Cluster of Multiple Icons

- ↑ Groundwater Flow Direction
- ⒼⒾ Indeterminate Groundwater Flow at Location
- ⒼⓋ Groundwater Flow Varies at Location
- ⒽⒹ Closest Hydrogeological Data
- ● Oil, gas or related wells

Scale: 0 — 1/4 — 1/2 — 1 Miles

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau	CLIENT: Leighton Consulting
ADDRESS: Former March Air Force Base - Ordinance Strge Area	CONTACT: Robert Blaine Hansen
Riverside CA 92508	INQUIRY #: 6607282.2s
LAT/LONG: 33.906914 / 117.308836	DATE: August 04, 2021 8:06 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92508	8	0

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

_____

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
   Source: United States Geologic Survey
   EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds
   to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data
   with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
   Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and
500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood
Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
   Source: FEMA
   Telephone: 877-336-2627
   Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR
in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
   Source: Department of Fish and Wildlife
   Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System
   Source: EDR proprietary database of groundwater flow information
   EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater
     flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has
     extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table
     information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
   Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital
   representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
   Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
   The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national
   Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil
   survey information for privately owned lands in the United States. A soil map in a soil survey is a representation
   of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO)
   soil survey maps.

SSURGO: Soil Survey Geographic Database
   Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
   Telephone: 800-672-5559
   SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping
   scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to
   construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the
   original soil survey maps. This level of mapping is designed for use by landowners, townships and county
   natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
    Source: EPA/Office of Drinking Water
    Telephone: 202-564-3750
    Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at
        least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
    Source: EPA/Office of Drinking Water
    Telephone: 202-564-3750
    Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
        August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface
water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
    State Water Resources Control Board
    Telephone: 916-341-5577
    The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing
        the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA
        data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources,
        Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide
        Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local
        Groundwater Projects.

Water Well Database
    Source: Department of Water Resources
    Telephone: 916-651-9648

California Drinking Water Quality Database
    Source: Department of Public Health
    Telephone: 916-324-2319
    The database includes all drinking water compliance and special studies monitoring for the state of California
        since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
    Source: Dept of Conservation, Geologic Energy Management Division
    Telephone: 916-323-1779
    Oil and Gas well locations in the state.

California Earthquake Fault Lines
    Source: California Division of Mines and Geology
    The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the
        United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault
        lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and
        Geology.

RADON

State Database: CA Radon
    Source: Department of Public Health
    Telephone: 916-210-8558
    Radon Database for California

Area Radon Information
    Source: USGS
    Telephone: 703-356-4020
    The National Radon Database has been developed by the U.S. Environmental Protection Agency
    (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey.
    The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at
    private sources such as universities and research institutions.

EPA Radon Zones
    Source: EPA
    Telephone: 703-356-4020
    Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor
    radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
    Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
    Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines,
prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault
lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

DRAFT

Appendix G

Local and Regional Regulatory Agency Records

DRAFT

Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Ph.D.
Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

September 8, 2021

Robert Hansen
LEIGHTON
rhansen@leightongroup.com

PR4-090721-19
276-170-007, 176-120-001, 294-020-001, 297-090-009, -001, 197-080-003, -002, 004, 005, 197-090-003, -002, 008, 007, 006, 005, RIVERSIDE, CA

Dear Requestor:

We have received your Public Records Act Request from the Department of Toxic Substances Control (DTSC). After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs Data Management System. It tracks our cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 714-4845337 or via email at CypressFileRoom@dtsc.ca.gov.

Sincerely,

Julie Johnson

Julie Johnson
Regional Records Coordinator

DRAFT

Robert Hansen

From:	ChatsworthFileRoom@DTSC <ChatsworthFileRoom@dtsc.ca.gov>
Sent:	Tuesday, September 7, 2021 3:39 PM
To:	Robert Hansen
Subject:	RE: Records Reqeust - Riverside Properties

Hello Robert,

I've forwarded this request to our Cypress regional records office for processing. They have jurisdiction over sites in Riverside, Orange and San Bernardino Counties. If they discover in their research of our statewide databases that Chatsworth may have documents for those sites, they will notify us. That way, one regional office won't duplicate the efforts of another.

Robert Hardison
Records Mgt. Asst. Coordinator
Chatsworth DTSC

From: Robert Hansen <rhansen@leightongroup.com>
Sent: Tuesday, September 7, 2021 2:48 PM
To: ChatsworthFileRoom@DTSC <ChatsworthFileRoom@dtsc.ca.gov>
Subject: Records Reqeust - Riverside Properties

EXTERNAL:

Dear Chatsworth Records:

Please conduct a search for any records related to the following Riverside County, California APNs:

APN	Approx. Acreage
276-170-007	98.6
276-120-001	16.24
294-020-001	80
297-090-009	80
297-090-001	79.81
297-080-003	29.91
297-080-002	54.82
297-080-004	26,94
297-080-005	15
297-090-003	25
297-090-002	40
297-090-008	10
297-090-007	10
297-090-006	20
297-090-005	<u>40</u>
	Total = 626

ROBERT B. HANSEN

Associate Environmental Geologist

10532 Acacia Street, Ste B-6

Rancho Cucamonga, CA 91730

o. 909.527-8782

c. 909.202-1662

Celebrate our **60 Years** with us by visiting our new website at www.leightongroup.com

DRAFT

Appendix H

Historical Site Usage Sources

DRAFT

EDR®

1675

1705

1700

1800

SAN BERNARDINO

This report includes information from the
following map sheet(s).

0 Miles   0.25   0.5   1   1.5

NW	N	NE
W		E
SW	S	SE
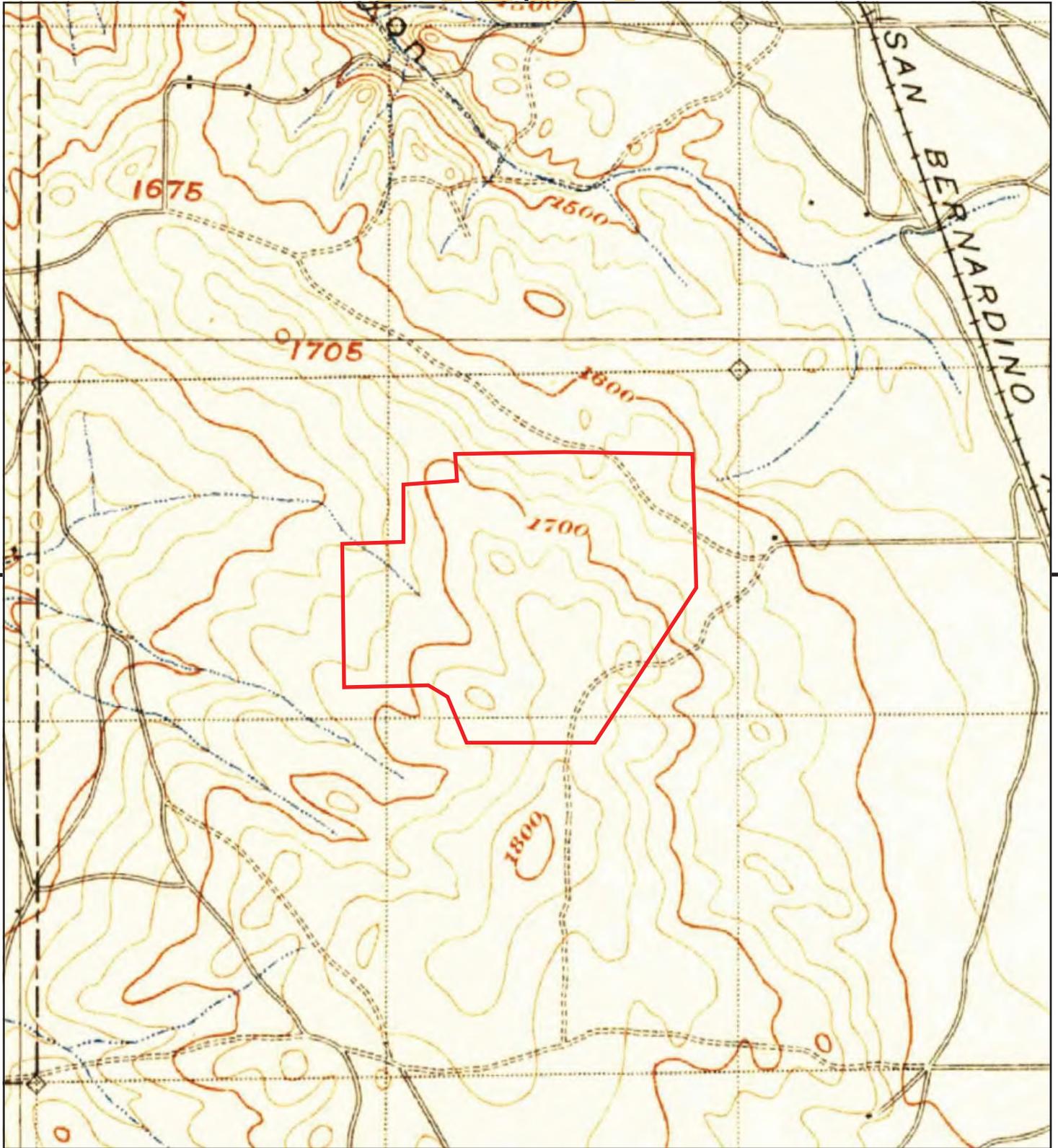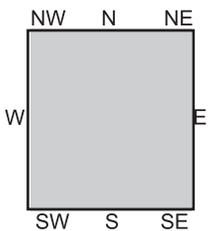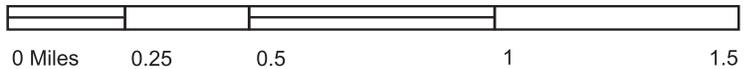
TP, Riverside, 1901, 15-minute

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
           Riverside, CA 92508
CLIENT: Leighton Consulting

N

DRAFT

INQUIRY #: 6607282.8

YEAR: 1931

= 750'
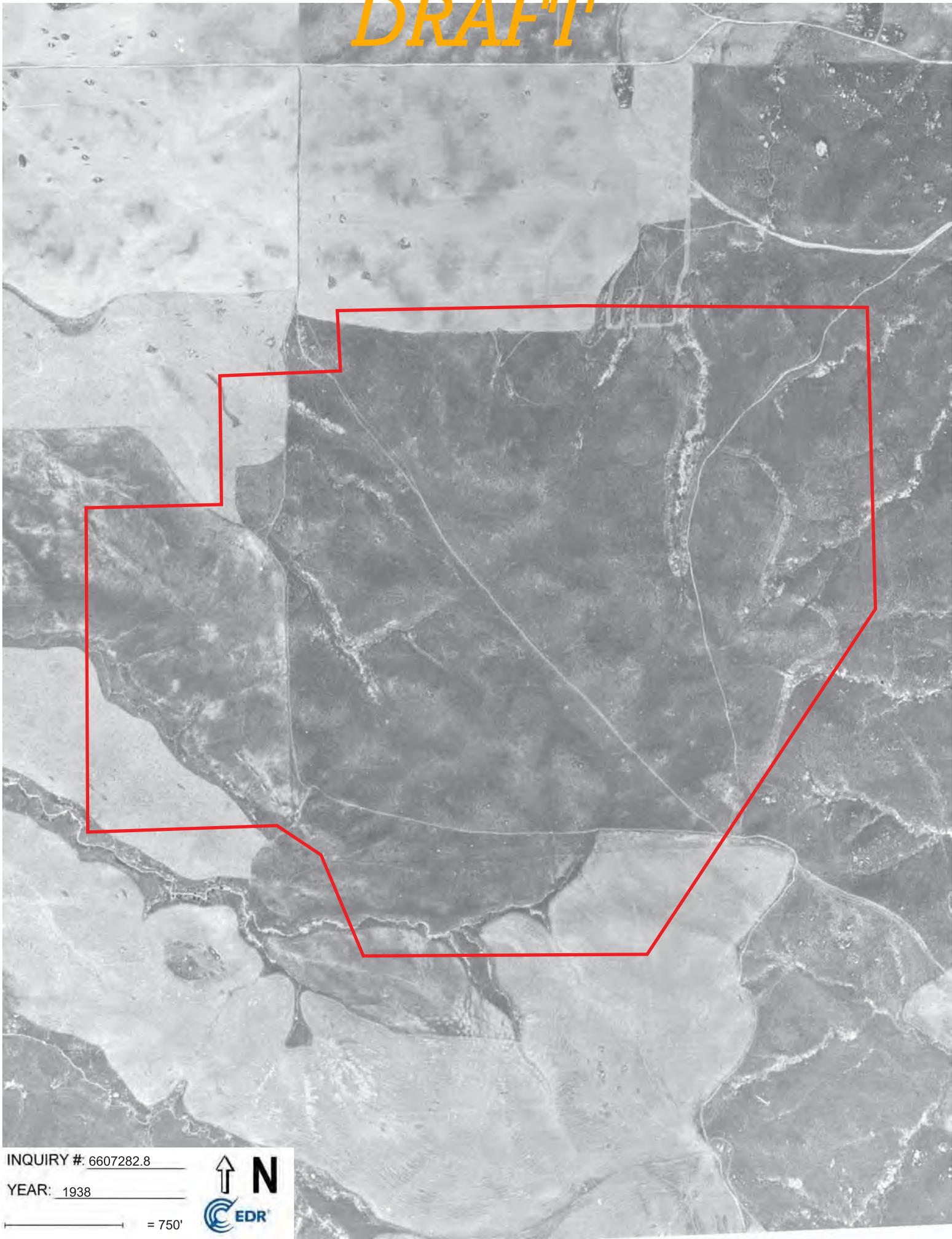
N

EDR

DRAFT

UNMAPPED (repeated along right margin)

DIAGRAM SHOWING ADJOINING MAPS

HESPERIA 1:62500	DEEP CREEK 1:62500	
		34°15'
DEVORE 1:31680	ARROWHEAD 1:31680	
CUCAMONGA 1:62500	SAN BERNARDINO 1:62500	REDLANDS 1:62500
GUASTI AND VICINITY 1:31680	FONTANA 1:31680 COLTON 1:31680	REDLANDS AND VICINITY 1:31680
		34°00'
CORONA AND VICINITY 1:31680	RIVERSIDE AND VICINITY 1:31680	
	RIVERSIDE 1:62500	
CORONA 1:125000	ELSINORE	33°45'

This report includes information from the
following map sheet(s).

0 Miles	0.25	0.5	1	1.5

NW N NE
W   E
SW S SE
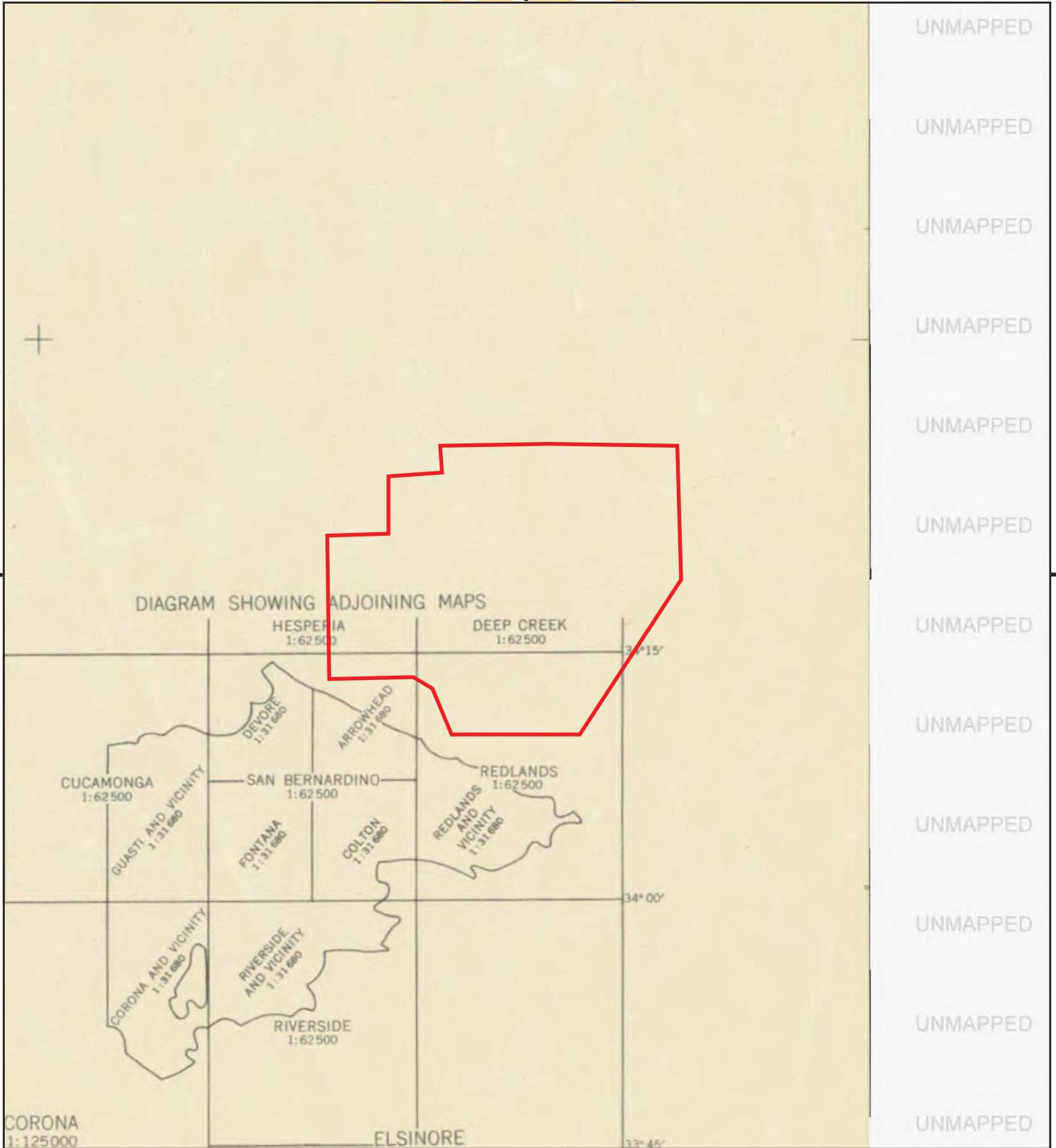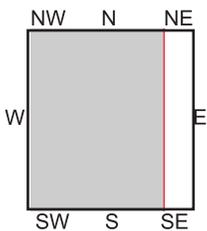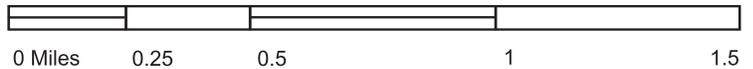
TP, RIVERSIDE VICINITY, 1942, 7.5-minute

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordnance
           Riverside, CA 92508
CLIENT: Leighton Consulting

N

This report includes information from the following map sheet(s).

0 Miles   0.25   0.5   1   1.5
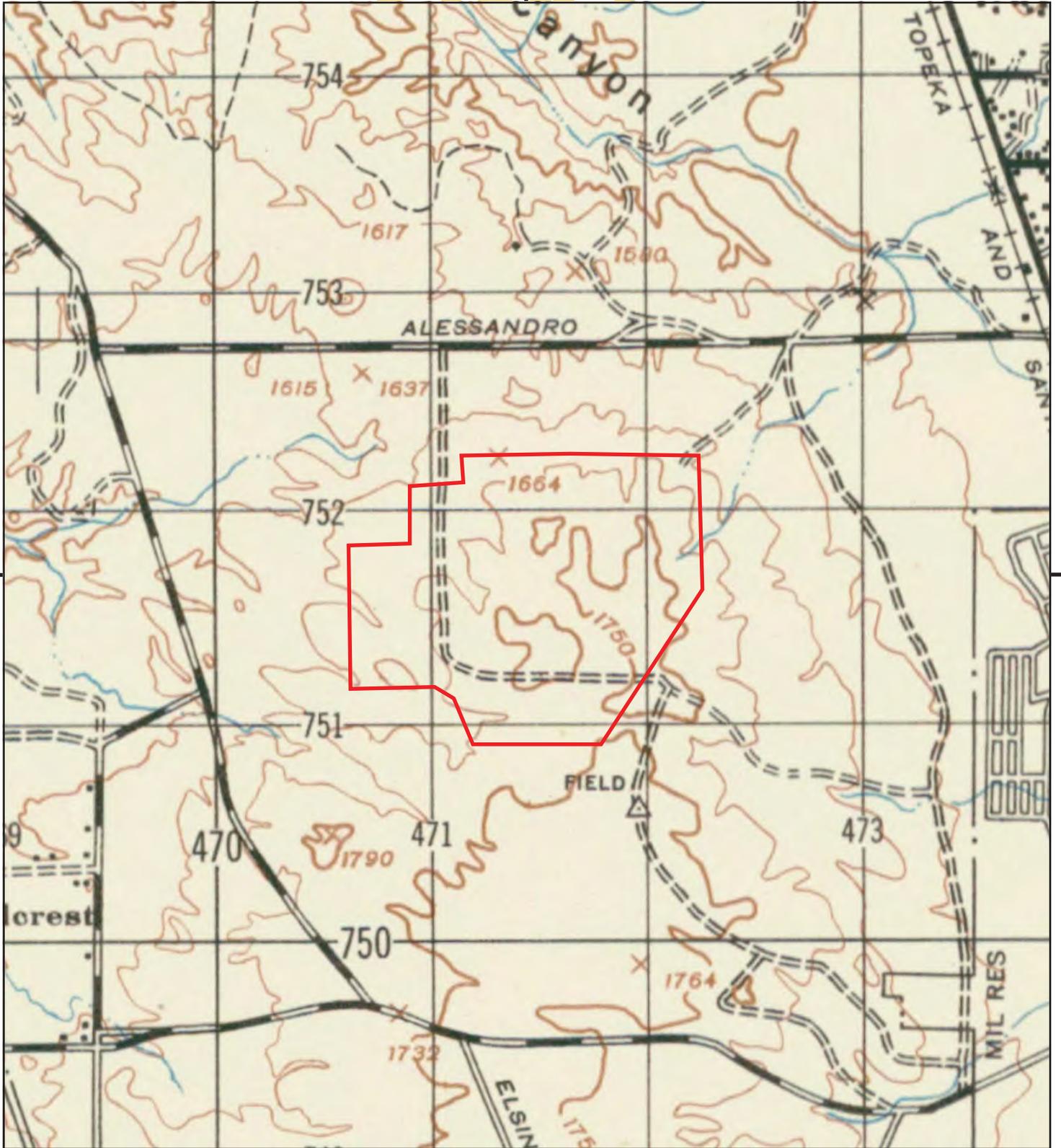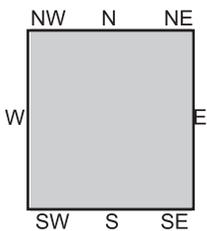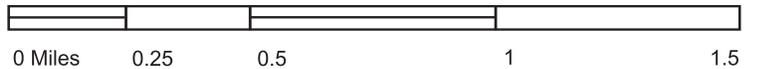
TP, RIVERSIDE, 1947, 15-minute

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
            Riverside, CA 92508
CLIENT: Leighton Consulting

INQUIRY #: 6607282.8

YEAR: 1949
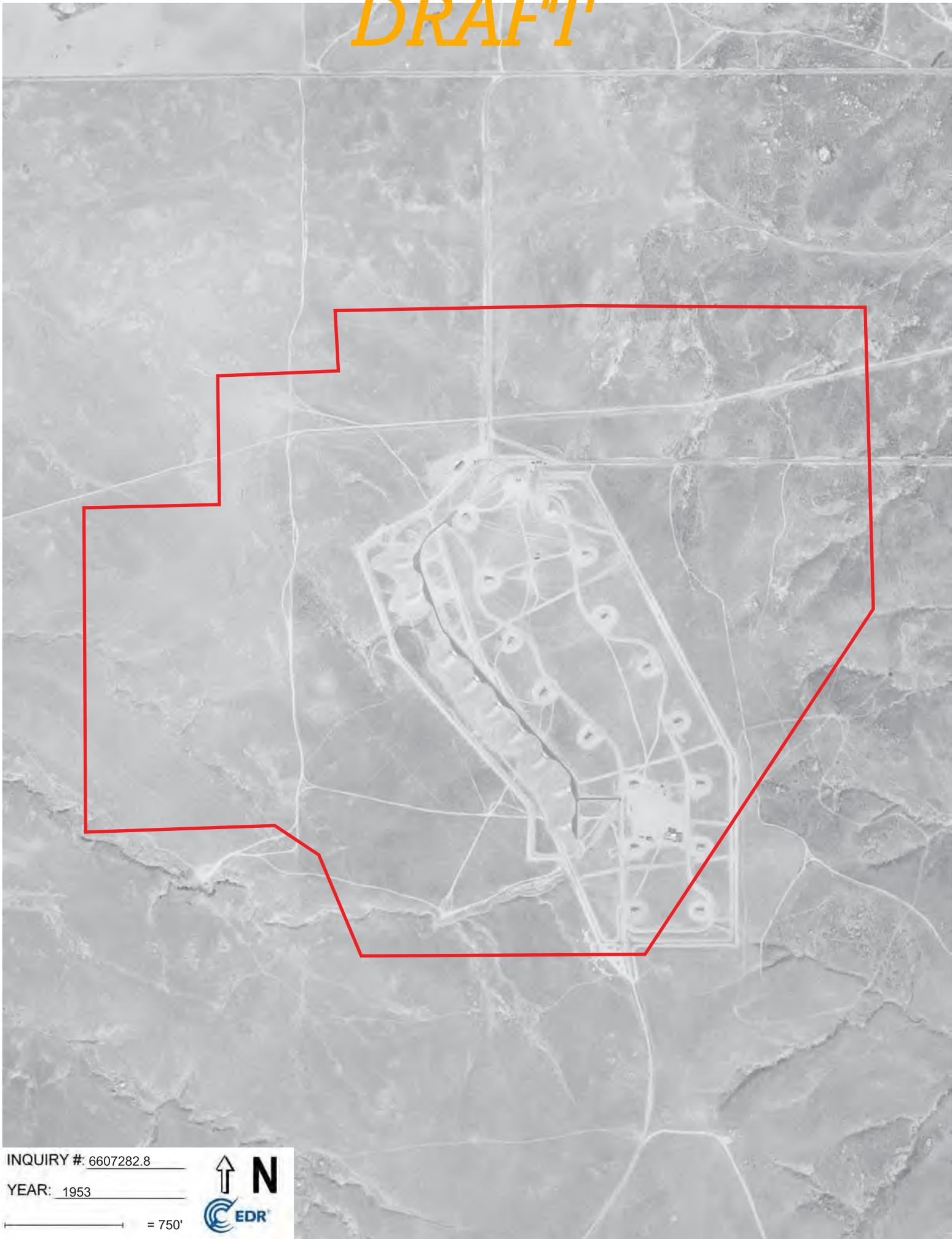
↑ N

EDR

⊢————————⊣ = 750'

DRAFT
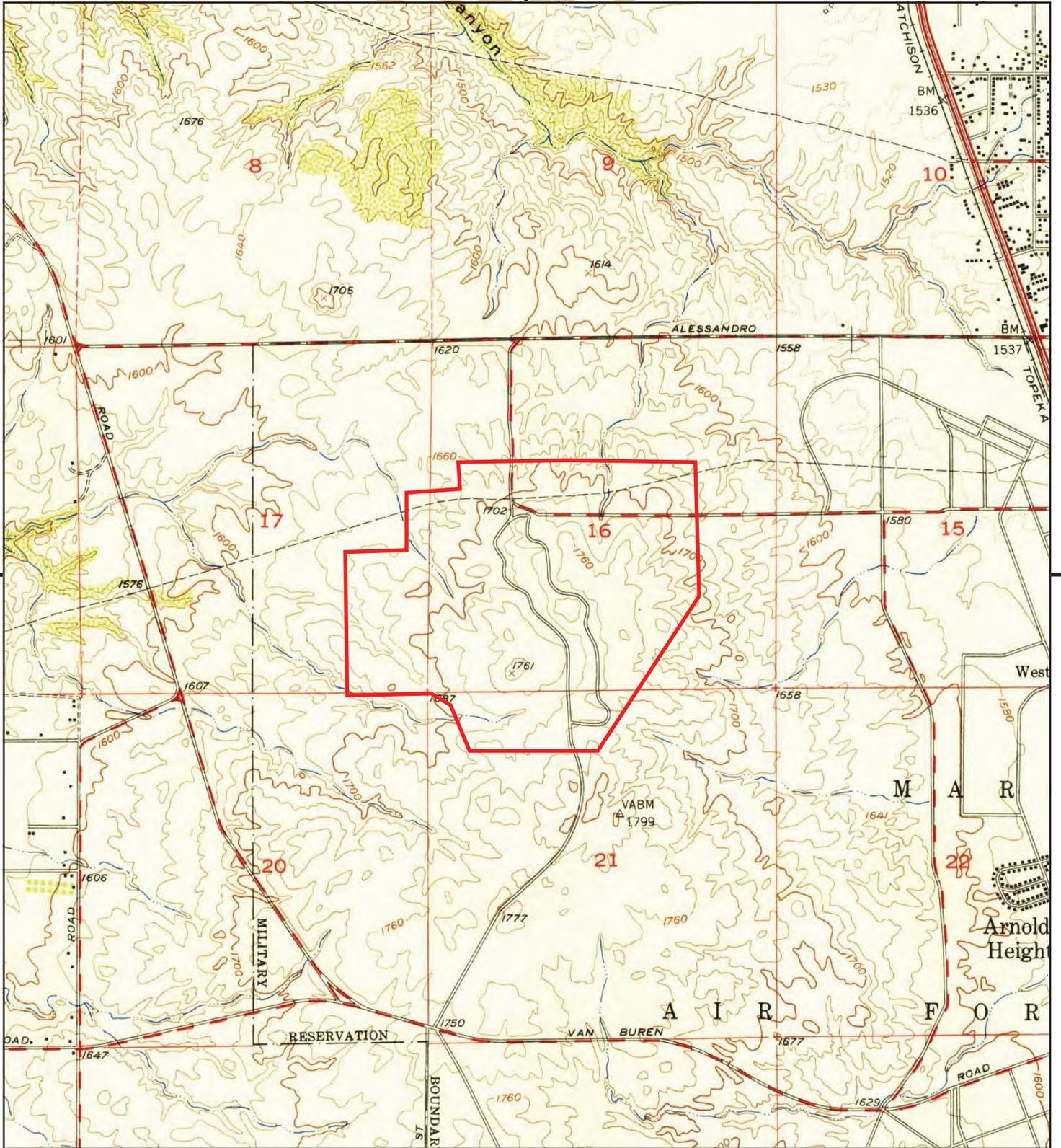
This report includes information from the following map sheet(s).
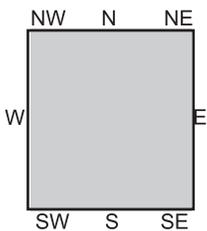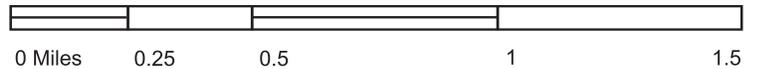
TP, Riverside East, 1953, 7.5-minute

NW   N   NE

W   E

SW   S   SE

0 Miles   0.25   0.5   1   1.5

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
            Riverside, CA 92508
CLIENT: Leighton Consulting

N

1962: C_24244, 1-142

DRAFT

DRAFT

This report includes information from the
following map sheet(s).

0 Miles   0.25   0.5   1   1.5

NW   N   NE

W   E

SW   S   SE
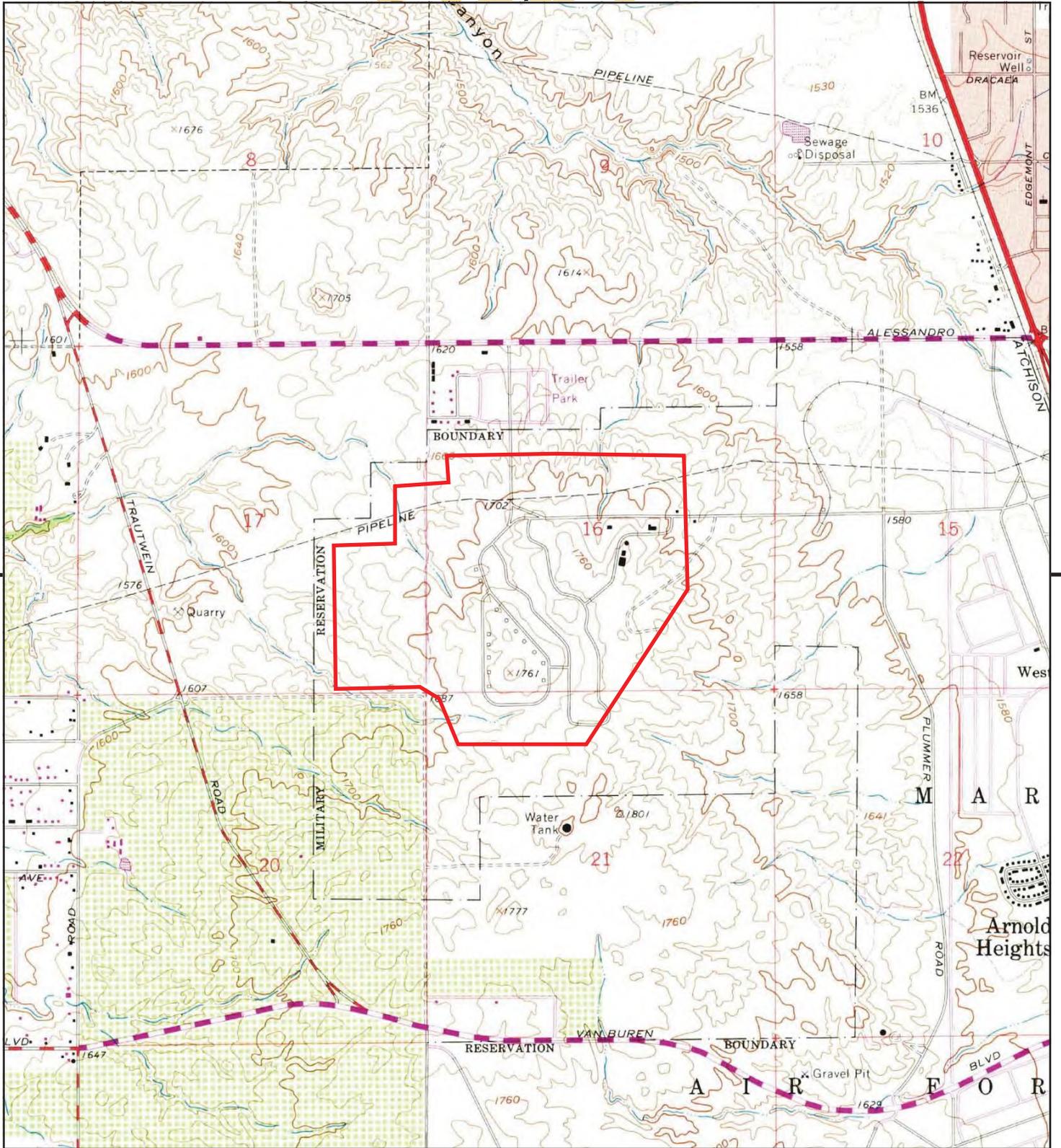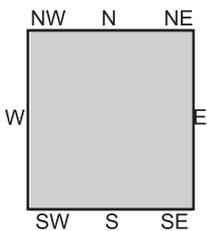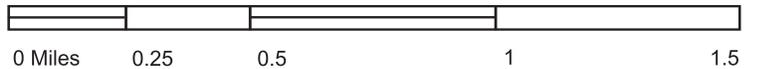
TP, Riverside East, 1967, 7.5-minute

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
             Riverside, CA 92508
CLIENT: Leighton Consulting

N

DRAFT

1976: AMI-RIV-76, 8089

USDA

16
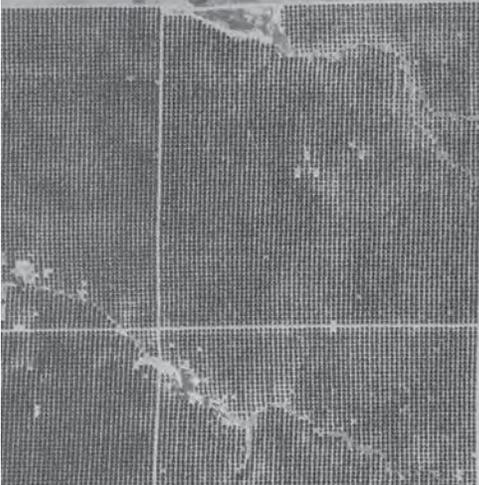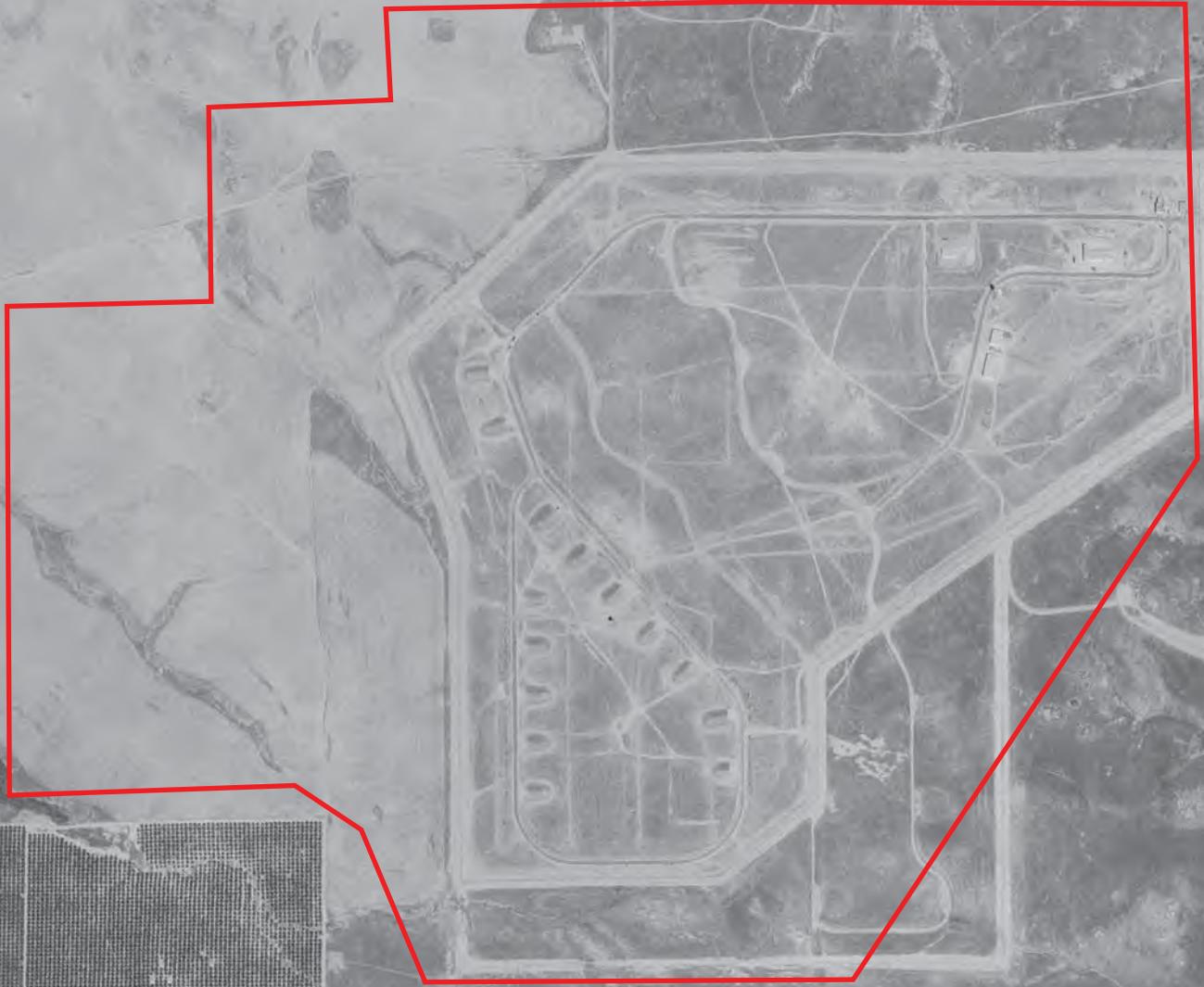
EDR
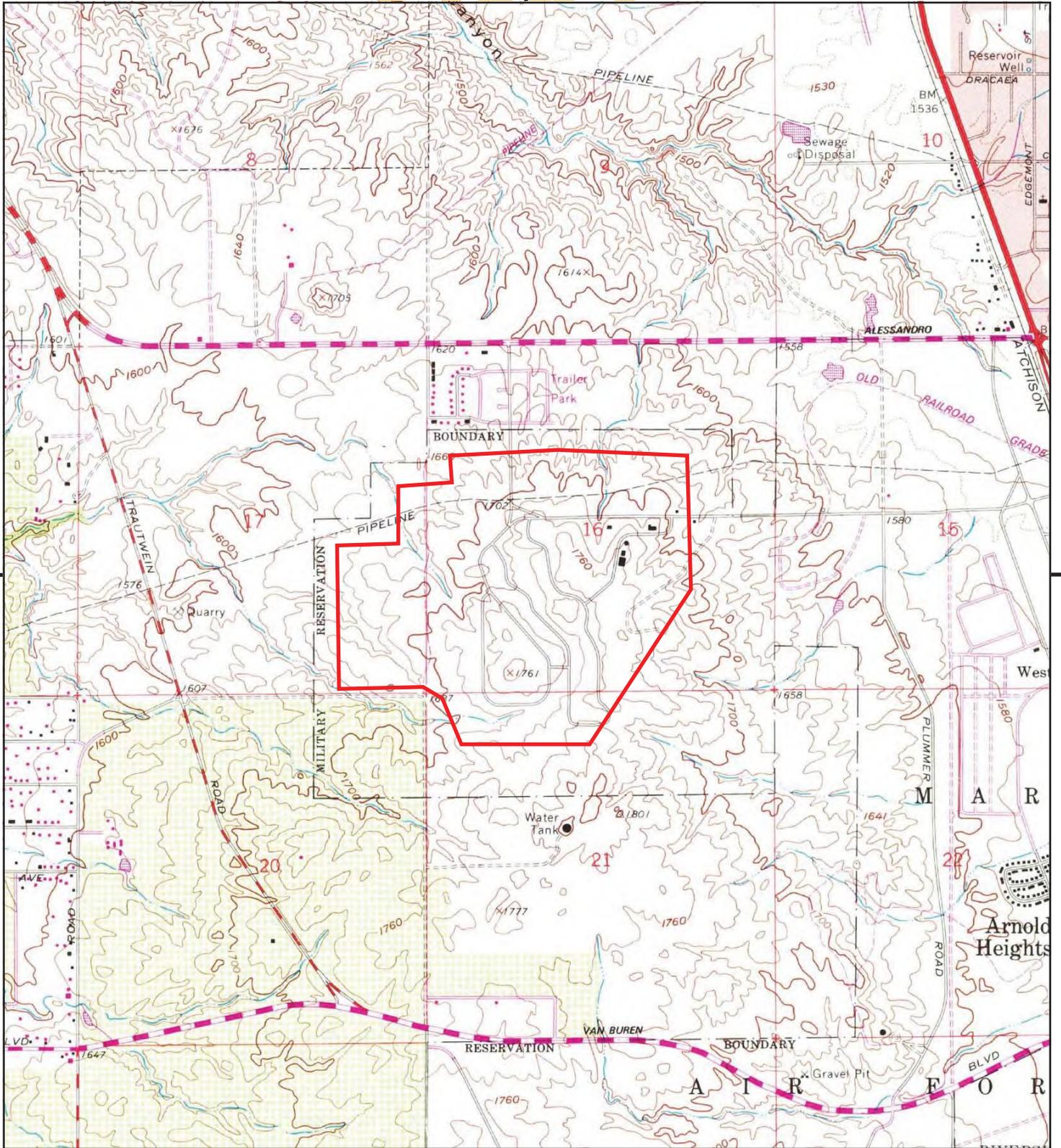
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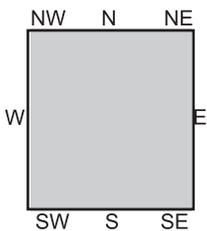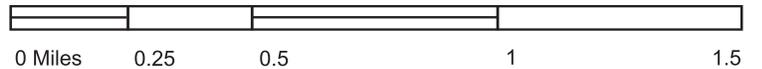
TP, Riverside East, 1980, 7.5-minute

NW N NE

W   E

SW S SE

0 Miles   0.25   0.5   1   1.5

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
Riverside, CA 92508
CLIENT: Leighton Consulting

DRAFT

INQUIRY #: 6607282.8

YEAR: 1989

N

EDR

= 750'

DRAFT

DRAFT

DRAFT

DRAFT

DRAFT

This report includes information from the
following map sheet(s).

0 Miles	0.25	0.5	1	1.5

NW   N   NE

W   E

SW   S   SE
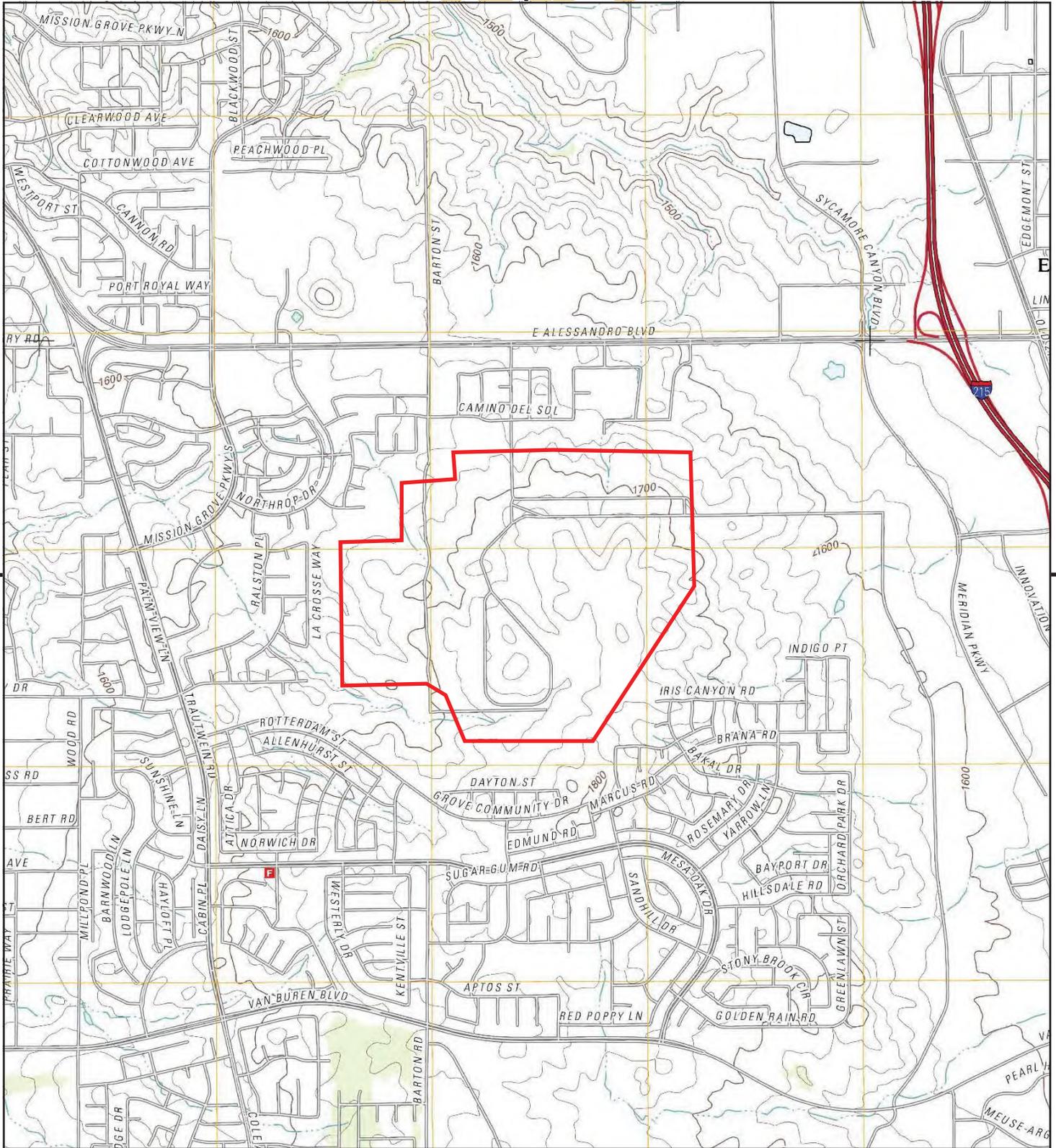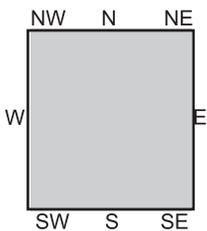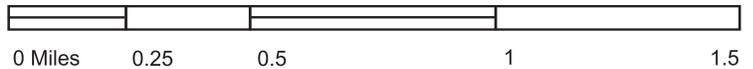
TP, Riverside East, 2012, 7.5-minute

SITE NAME: Lewis-Meridian Park LLC, Upper Plateau
ADDRESS: Former March Air Force Base - Ordinance
                    Riverside, CA 92508
CLIENT: Leighton Consulting

N

DRAFT

Certified Sanborn® Map Report

Site Name:	Client Name:	
Lewis-Meridian Park LLC, Upp Former March Air Force Base - Riverside, CA 92508 EDR Inquiry # 6607282.3	Leighton Consulting 17781 Cowan Irvine, CA 92614 Contact: Robert Blaine Hansen	EDR®

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Leighton Consulting were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 5977-489C-A4A4

PO # NA

Project 13226.002

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 5977-489C-A4A4

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✔ Library of Congress

✔ University Publications of America

✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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DRAFT

Lewis-Meridian Park LLC, Upper Plateau
Former March Air Force Base - Ordinance Strge Area
Riverside, CA 92508

Inquiry Number: 6607282.5
August 06, 2021

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1921 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 1320 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by
*info*USA®
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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	-	-	-
2014	Cole Information Services	-	-	-	-
2009	Cole Information Services	-	-	-	-
2004	Cole Information Services	-	-	-	-
2002	SBC PACIFIC BELL	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
1999	Cole Information Services	-	-	-	-
1996	Pacific Bell	-	-	-	-
1994	Cole Information Services	-	-	-	-
1993	Pacific Bell	-	-	-	-

6607282- 5   Page 1

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1990	Pacific Bell	-	-	-	-
1986	Pacific Bell Yellow Pages	-	-	-	-
1981	Pacific Telephone	-	-	-	-
1977	Pacific Telephone	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1967	Luskey Brothers & Co.	-	-	-	-
1966	Luskey Brothers & Company Inc.	-	-	-	-
1961	Luskey Brothers & Co.	-	-	-	-
1960	Luskeys Brothers & Co., Publishers	-	-	-	-
1956	Luskey Brothers & Co.	-	-	-	-
1955	Luskeys Brothers Co., Publishers	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1946	Southern California Telephone Company	-	-	-	-
1945	Los Angeles Directory Co.	-	-	-	-
1941	Pacific Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1931	Southern California Telephone Co.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Kaasen Directory Co.	-	-	-	-
1921	Riverside Directory Co.	-	-	-	-

TARGET PROPERTY INFORMATION

ADDRESS

Former March Air Force Base - Ordinance Strge Area
Riverside, CA   92508

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

DRAFT

FINDINGS

DRAFT

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

Former March Air Force Base - Ordinance Strge Area

Address Not Identified in Research Source

2017, 2014, 2009, 2004, 2002, 2001, 1999, 1996, 1994, 1993, 1990, 1986, 1981, 1977, 1970, 1967, 1966, 1961, 1960, 1956, 1955, 1951, 1946, 1945, 1941, 1939, 1936, 1931, 1930, 1927, 1925, 1924, 1921

DRAFT

Appendix I

GBA Geoenvironmental Report

Leighton

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Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,

- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change,* sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else— a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

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Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.

GBA GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733   Facsimile: 301/589-2017
e-mail: info@geoprofessional.org   www.geoprofessional.org

Appendix J-2

Phase II Environmental Site Assessment

PHASE II ENVIRONMENTAL SITE ASSESSMENT
MERIDIAN – WEST CAMPUS UPPER PLATEAU

ALL OR PORTIONS OF RIVERSIDE COUNTY APNS:
276-170-001, -007, 294-020-001
297-090-001, -002, -003, -006, -007, -008, -009
297-080-002, -003, -004, -005

RIVERSIDE, CALIFORNIA 92508

Prepared For **MERIDIAN PARK WEST, LLC**
1156 North Mountain Avenue
Upland, California 91786

Prepared By **LEIGHTON CONSULTING, INC.**
10532 Acacia Street, Suite B-6
Rancho Cucamonga, California 91730

Project No. 13226.003

January 17, 2022

January 17, 2022

Project No. 13226.003

Meridian Park West, LLC.
1156 North Mountain Avenue
Upland, California 91786

Attention: Mr. Timothy Reeves / Mr. Adam Collier

Subject: Phase II Environmental Site Assessment
            Meridian - West Campus Upper Plateau
            Riverside, California 92508

Leighton Consulting, Inc. (Leighton) is pleased to present this draft copy of the Phase II Environmental Site Assessment for the subject property in Riverside, California, including all or portions of fourteen Riverside County Assessor Parcel Numbers (APNs): 276-170-007, 276-120-001, 294-020-001, 297-090-001, -002, -003, 006, -007, -008, -009, 297-080-002, -003, -004, -005.

If you have questions regarding this report, please contact us. We appreciate the opportunity to be of service to MERIDIAN PARK WEST, LLC.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

ROBERT B. HANSEN
California RG #5839
Associate Env. Geologist

KRIS R. LUTTON
California RG#6622
Director of Env. Services

Distribution: Addressee

TABLE OF CONTENTS

Appendix J-3

Finding of Suitability to Transfer, Parcels F and K-1, March Air Force Base, and Quitclaim Deed for Parcel F and K-1 between the U.S. Air Force and March Joint Powers of Authority

MARCH AFB
CALIFORNIA

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number __2258__

MARCH

COORDINATION/REVIEW SHEET FOR:
~~LEASES/LICENSES~~/SUPPLEMENTS

PARCELS F & K
(march)
(83)
fil
24-H

AIR FORCE BASE: _____ MARCH _____

~~LEASE/LICENSE~~/SUPPLEMENT FOR: ~~SF~~ SPECIES HABITAT ____ (e.g., Univ. of Maine, UMP)

~~LEASE/LICENSE~~/SUPPLEMENT NUMBER: _____ MJPA _____

ST/~~POSH~~ Coord Compl: ____ Yes- ____ No ____ Not Required , (Separate Coord Sheet Attached)

Di ..on: _____ DD _____
OPR: _____ MENDOZA _____
COMMITMENT DATE &
TO WHOM
e.g., Lessee/Licensee Date: _____ Who: _____

COORDINATION TRACKING:	Date In/ Name/Initials	Date Out Name/Initials	Date In Name/Initials	Date Out Name/Initials	Date In Name/Initials	Date Out Name/Initials	Date In Name/Initials	Date Out Name/Init.
SMITH Div Real Estate OPR	4 apr 00 PDS	4 apr 00 PDS						
MENDOZA Div Environmental OPR	AMM 31 MAR 00	AMM 31 MAR 00						
JACKSON Div Program Manager	U Crown 4-6-00							
Environmental Div (EV) (Shadow)								
Div Secretary-Ensure Pkg is in order & Proofreads CHASE	J Chase 4-6-00	J Chase 4-6-00						
MYER Legal Division (Lawyer)		5 AP2 00						

Attached for review is subject lease/license/supplement with documents in the following order, as required:

Note: This is the package to be brought in for Day Zero.

_____ a. Lease (with revision marks) w/Exhibits
_____ b. Rental Determination
_____ c. Memo for Record (Insurance)
_____ d. AF Form 813
_____ e. Other
_____ f. FOSL

Any special circumstances/considerations with this Lease?____ Attach any pertinent facts/comments on separate sheet. ____

DR/DDR Day Zero Scheduled	Yes (Date): _____							
	Date In Name/Initials	Date Out Name/Initials	Date In Name/Initials	Date Out Name/Initials	Date In Name/Initials	Date Out Name/Initials	Date Name/Initials	Date Name/Initials
Div Secretary Runs Final Copy of Lease/ FOST/ FOSL/Supplement After Day 0								
Final Proofreading *AFBCA/ES (DB/DD) *AFBCA/LD (DA/DC)	4/9/00 DD	4/9/00 DD						
DR/DDR Signature	4/9/00							

S:\ES\COORDSH.DOC

FINDING OF SUITABILITY TO TRANSFER

PARCELS F AND K-1

MARCH AIR FORCE BASE, CALIFORNIA

1.   **PURPOSE**

1.1 The purpose of this Finding of Suitability to Transfer (FOST) is to document environmentally-related findings and the suitability to transfer for the proposed deed of real property and any improvements at March Air Force Base (AFB), California, to the March Joint Powers Authority (Transferee). The property is described in Section 2 below. The property will be transferred by Deed and its anticipated use will be an endangered species reserve.

1.2 This FOST is a result of a thorough analysis of information contained in the following documents: (1) the Final Environmental Impact Statement (FEIS) for the Disposal and Reuse of March AFB, dated February 1996; (2) the Basewide Environmental Baseline Survey (EBS) for March AFB, dated November 1994; (3) EBS Category Update, dated February 1999; (4) Biological Opinion, dated November 9, 1999; (5) Supplemental EBS (SEBS) for Parcels F and K-1, dated August 3, 2000; and (6) Visual Site Inspection (VSI) conducted on August 1, 2000.

2.   **PROPERTY DESCRIPTION**

The property is shown on the March AFB Parcel Map (Atch 1), and is comprised of approximately 1,300 acres. The property includes the following improvements:

Facility	Nomenclature	Year of Construction	Square Footage	Category
5022	Storage Igloo	1953	2,392	2
5023	Storage Igloo	1953	2,392	2
5024	Storage Igloo	1953	2,392	2
5025	Storage Igloo	1953	2,392	2
5026	Storage Igloo	1953	2,392	2
5027	Storage Igloo	1953	2,392	2
5028	Storage Igloo	1953	2,392	2
5029	Storage Igloo	1953	2,392	2
5030	Storage Igloo	1953	1,218	2
5033	Storage Igloo	1955	1,383	2
5034	Storage Igloo	1955	2,147	2
5035	Storage Igloo	1955	1,047	2
5036	Storage Igloo	1955	2,147	2
5037	Storage Igloo	1955	1,047	2
5038*	Water Tank	1956	Unknown	2
5039	Warehouse	1955	5,000	1

5040	Power Facility	1956	3,012	1
5041	Munitions Shop	1955	1,920	2
5042	Inspection Shop	1956	5,564	1
5043	Guard Station	1956	1,675	1
5044	Equipment Storage	1980	1,965	1
5050	Kennel	1955	2,106	2
5051*	Pump Station	1956	178	2
5052	Kennel Building	1986	568	1
5060	Burn Facility	1967	Unknown	4
6601*	Storage Tank	1967	Unknown	1
Unknown	Recreation Storage	Unknown	500	2

*These facilities are part of the water distribution system and will be transferred with the utility system.

3.   NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) COMPLIANCE

The environmental impacts of this proposal have been adequately analyzed and disclosed in accordance with NEPA. These impacts are analyzed in the FEIS. Based on this analyses, the environmental impacts of proceeding with the Deed transfer are not sufficiently adverse to human health and the environment to prevent the conveyance of the property.

4.   ENVIRONMENTAL CONDITION OF THE PROPERTY

The condition of the property has changed from the condition identified in the EBS. Based on the February 1999 EBS Category Update, the property is now considered Department of Defense (DoD) Environmental Condition Categories 1, 2, 3 and 4. Category 1 includes areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas). Category 2 includes areas where only release or disposal of petroleum substances has occurred. Category 3 includes areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require removal or remedial response. Category 4 includes areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken.

5.   DEED RESTRICTIONS AND NOTIFICATIONS

The environmental documents listed in Section 1.2 were evaluated to identify environmental factors (Atch 2) which may warrant constraints on certain activities in order to minimize substantially or eliminate any threat to human health or the environment. Such constraints typically are embodied as permanent restrictions in the Deed or as specific notification to the Transferee. The factors that require deed restrictions or specific notifications are identified in Atch 2 and are discussed below. Refer to the EBS, EBS Category Update, SEBS, and applicable VSIs for specific information on each resource category.

The Air Force has determined that the remaining factors listed in Atch 2 pose no threat to human health or the environment, and therefore, require neither deed restrictions nor notifications to the Transferee.

5.1   Hazardous Substances Notification

Past activities on the property included disposal of hazardous substances in undetermined quantities at the former IRP Sites 3, 25, and 40. Disposal occurred during the years the areas were utilized for landfill operations. A brief description of IRP Sites 3, 25 and 40 can be found below. More detailed information on these sites can be found in Section 3.3.3.1 of the SEBS, EBS Category Update, and EBS.

Waste at IRP Site 3 included household waste, demolition debris, waste oil, solvents, thinners, and polychlorinated biphenyl oil. This site was in operation from 1954 to 1974. A regulator approved removal action was completed in January 1996. Approximately 223,200 cubic yards of landfill materials and soils were removed from the site and disposed of in the consolidated landfill at IRP Site 6.

Waste at IRP Site 40 included drums, battery casings, and construction rubble. This site was in operation from the mid-1940s until sometime in the 1950s. A regulator approved removal action was completed in December 1994. Approximately 6,800 cubic yards of waste was disposed of in the consolidated landfill at IRP Site 6. Approximately 120 tons of waste materials were transported off-site for treatment/stabilization in Westermoreland, California.

Past activities at IRP Site 25 included burial of munitions residue. This site was in operation from the late 1950s until the early 1990s. The site consisted of a detonation pit and burial trenches. Small-scale munitions disposal was conducted at the site since the 1950s. Outdated small arms ammunition, egress items, smoke grenades, starter cartridges, and other pyrotechnics were deactivated in the detonation pit. Approximately 300 gallons of acetone were reportedly disposed of at this site. A regulator approved site-specific removal action was conducted in 1996. Approximately 3,000 cubic yards of waste and affected soils were removed and disposed of in a consolidated landfill at IRP Site 6.

A hazardous substance notice will be given in the Deed describing the hazardous substances and the approximate time periods the substances were located at the two former landfills (IRP Sites 3 and 40) and at the former munitions residue burial location (IRP Site 25) and the response actions taken as noted above.

5.2   Installation Restoration Program (IRP) and Areas of Concern (AOC)

Four (4) IRP sites, Sites 3, 25, 30 and 40, were located on the property. Removal actions to protect human health and the environment were taken at three (3) sites - Sites 3, 25 and 40. No hazardous substances were identified at Site 30 and no Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) corrective actions were taken there. The

Air Force has determined that all remedial actions to protect human health and the environment have been taken. The determination that all remedial action necessary to protect human health and the environment have been taken is supported by the MAFB Operable Unit No. 2 Proposed Plan, September 1997, with concurrence letters from the Department of Toxic Substances Control (DTSC), August 28, 1997; and California Regional Water Quality Control Board, September 4, 1997 (Atch 3). The United States Environmental Protection Agency (EPA) has determined that all necessary remedial actions have been taken at IRP Sites 3, 25, 30 and 40 (Ref. EPA Parcel(s) F and K-1 Letter dated February 3, 2000, Page 1, Comment 2. See Atch 4.).

For the portions of the property to be transferred that include Study Areas U-1,1; U-2,1; U-4,1; U-5,1; T-2,1; T-3,1; T-4,1; T-5,1; S-1,1; S-2c,1; Q-1,1; Q-3,1; Q-4,1; Q-7,1; N-4,1; and R-1,1, the Deed will contain covenants specified in CERCLA Section 120(h)(4), which provides that any remedial or corrective action found to be necessary after the date of transfer will be conducted by the United States. The Deed will also reserve a right of access to the United States and to the State of California to conduct any necessary monitoring, investigation or response action on the parcels or adjacent property.

For the portions of the property to be transferred that include Study Areas U-3,2; T-1,2; S-2a,3; S-2b,4; Q-2,3; Q-5,2; Q-6,3; Q-8,3; Q-9,4; N-5,2; and N-8,4, the Deed will contain the covenant specified in CERCLA Section 120(h)(3), which states that all remedial action necessary to protect human health and the environment has been taken as well as providing that any remedial action found to be necessary after the date of transfer will be conducted by the United States. The Deed will also reserve a right of access to the United States and to the State of California to conduct any necessary monitoring, investigation or response action on the parcels or adjacent property.

Covenants will be included in the Deed to ensure that ensure that any response or corrective actions that are the responsibility of the Air Force, found to be necessary after the date of delivery of the Deed, will be conducted by the United States. Provisions will also be included in the Deed to allow the United States access to the property in any case in which any such response or corrective action is found to be necessary, or where such access is necessary to carry out the response or corrective action on adjacent property.

5.3   Above Ground Storage Tanks (AST)

ASTs are located on the property. The Transferee will be responsible for complying with all applicable Federal, State, and local laws relating to the use of these tanks.

5.4   Lead-Based Paint (LBP) – Facilities other than Housing

LBP might be present in facilities other than housing on the property since most of the facilities were built prior to 1978. The Transferee will be notified through EBS, EBS Category Update and SEBS of the possible presence of LBP in these facilities. Notice in the Deed will be provided to the Transferee that the Transferee will be responsible for managing all LBP and potential LBP in compliance with all applicable laws and regulations.

5.5   Asbestos-Containing Material (ACM)

ACM is located on the property and is in good condition and not damaged or deteriorated to the extent that it creates a potential source of airborne fibers. Notice will be provided in the Deed that the Transferee will be responsible for complying with all applicable Federal, State, and local laws relating to asbestos.

5.6   Sanitary Sewer System (Wastewater)

Certain facilities on the property are connected to a sanitary sewer. The Transferee will be responsible for submitting any required applications for discharging wastewater to the sanitary sewer system and for meeting all applicable wastewater discharge permit standards.

5.7   Threatened and Endangered Species

Threatened or endangered species are present on the property. The Deed will reference the existence of the species and their regulatory control and, will contain restrictive provisions assuring that actions taken are in accordance with the Biological Opinion (1-6-99-F-13) dated November 9, 1999. The Transferee will be responsible for conducting any consultations and mitigations prior to beginning new construction in endangered species habitat.

5.8   Wetlands

Certain areas of the property are classified as designated wetlands. The Deed will reference the existence of the wetlands and their regulatory control, and will contain restrictive provisions assuring that no actions can be taken which would adversely affect those wetlands. Any property development affecting wetlands will be subject to Section 404 of the Clean Water Act and State provisions.

5.9   Air Conformity/Air Permits

Air emissions sources are present on the property. The Transferee will be responsible for obtaining any necessary air emission permits prior to operation of these sources.

6.   REGULATORY COORDINATION

The California Environmental Protection Agency and the United States Environmental Protection Agency were notified on May 14, 1999, of the initiation of the SEBS and FOST and were invited to participate in preparing the working draft documents. Consolidated draft documents were provided on June 4, 1999, for formal review and comment. Regulatory comments (Atch 4) were received on July 29, 1999; September 20, 1999; February 3, 2000; February 23, 2000; February 28, 2000; March 22, 2000; and March 23, 2000. All comments were recorded, reviewed, addressed, and incorporated in the document (Atch 5), or addressed as unresolved comments (Section 7). A revised draft final SEBS and FOST were provided for

coordination on August 3, 2000. Regulatory support letters were received on August 9, 2000; August 24, 2000; and August 30,2000.

Based on EPA's review of the EBS Category Update of February 1999, EPA, in consultation with the State of California, has concurred with the Air Force determination that (1) the Category 1 Study Areas of Parcels F and K-1 are uncontaminated and, therefore, are eligible for transfer under CERCLA Section 120(h)(4), and (2) the Category 2, 3 and 4 Study Areas of Parcels F and K-1 are eligible for transfer under CERCLA Section 120 (h)(3).

7.   UNRESOLVED REGULATOR COMMENTS

All comments provided by the regulators have been addressed and/or incorporated in this document (see Atch 5). Lead-based paint remains an unresolved issue (see Atch 5, September 20, 1999, EPA comment No. 4).

8.   FINDING OF SUITABILITY TO TRANSFER

The deed proposal has been adequately assessed and evaluated for (a) environmental hazards, (b) environmental impacts anticipated from future use of the property, and (c) adequate notice of disclosure resources. The future use of this property does not present a current or future risk to human health or to the environment, subject to inclusion and compliance with the appropriate deed covenants as addressed above. The property, therefore, is suitable for transfer.

September 20, 2000
Date

ALBERT F. LOWAS, JR.
Director
Air Force Base Conversion Agency

Attachments:
1. Site Map
2. Environmental Factors Considered
3. State Regulatory Concurrence Letters
4. Regulator Comments
5. Air Force Response to Regulator Comments

FOST, Parcels F and K-1, March AFB, CA, 09/18/00

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE

Parcel F + K1

DOC # 2001-234433
__/25/2001 08:00A Fee:NC
Page 1 of 11
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County of Riverside
Gary L. Orso
Assessor, County Clerk & Recorder

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QUITCLAIM DEED

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I. PARTIES

THIS DEED is made and entered into this 28TH day of FEBRUARY, 2001 by and between the UNITED STATES OF AMERICA, acting by and through the Secretary of the Air Force, under and pursuant to the powers and authority contained in the Defense Base Closure and Realignment Act of 1990, as amended (10 U.S.C. § 2687 note), and delegations and regulations promulgated thereunder (the "Grantor"), and the MARCH JOINT POWERS AUTHORITY, a joint powers authority established under the laws of the State of California (the "Grantee"). The Grantee is a local redevelopment authority, as this term is defined in the Defense Authorization Amendments and Base Closure and Realignment Act of 1988, as amended. When used in this Quitclaim Deed, unless the context specifies otherwise, the use of the term "Grantor" shall include the assigns of the Grantor, and the use of the term "Grantee" shall include the successors and assigns of the Grantee.

II. CONSIDERATION AND CONVEYANCE

FOR VALUABLE CONSIDERATION of the sum of ONE DOLLAR ($1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, the Grantor does hereby release and forever quitclaim to the Grantee all that real property situated in County of Riverside, State of California, described as follows:

In the County of Riverside, State of California, those portions of Sections 15, 16, 17, 21, 22, 27 and 28 of Township 3 South, Range 4 West, San Bernardino Base and Meridian, more particularly described as follows:

Beginning at the common section corner to Sections 16, 17, 20 and 21 of Township 3 South, Range 4 West, San Bernardino Base and Meridian; thence along the southerly, westerly and northerly lines of Parcel 20 of Parcel Map 4806, as shown on the map filed in Book 7, Pages 8 through 12 inclusive of Parcel Maps in said County Recorder's Office, the following five courses:

3. South 59°06'47" West 90.43 feet;
4. South 64°41'15" West 102.99 feet;
5. South 62°13'15" West 99.99 feet;
6. South 63°11'38" West 99.70 feet;
7. South 64°31'15" West 111.41 feet;

thence leaving said southerly right-of-way North 00°01'43" West 70.59 feet to the centerline of Van Buren Boulevard as shown on the map filed in Book 84, Page 37 of Records of Survey; thence along said centerline the following four courses:

1. South 63°49'04" West 94.73 feet to the beginning of a curve concave northerly having a radius of 2,999.79 feet;
2. Southwesterly, westerly and northwesterly along said curve 2,930.12 feet through a central angle of 55°57'54";
3. North 60°13'02" West 648.18 feet to the beginning of a curve concave southerly having a radius of 2,999.79 feet;
4. Northwesterly and westerly along said curve 1,542.27 feet through a central angle of 29°27'26" to the southerly line of said Section 21;

thence along said southerly line South 89°40'27" East 2,218.79 feet to the Section corner common to said Sections 21, 22, 27, and 28; thence along the southerly line of said Section 22, North 89°35'25" East 1,282.57 feet to a line that is parallel with and 1369.40 feet westerly of the east line of the southwest quarter of said Section 22; thence along said parallel line North 00°30'42" East 2,663.96 feet to the southerly line of the northwest quarter of said Section 22; thence leaving said parallel line along said southerly line South 89°35'58" West 0.09 feet to a line that is parallel with and 1369.40 feet westerly of the easterly line of the northwest quarter of said Section 22; thence along said parallel line North 00°43'30" East 2,653.93 feet to the northerly line of said section 22; thence leaving said parallel line along said northerly line South 89°56'15" East 0.03 feet to a line that is parallel with and 1369.40 feet westerly of the easterly line of the southwest quarter of said Section 15; thence leaving said northerly line along said parallel line North 00°35'14" East 659.98 feet; thence leaving said parallel line North 89°56'13" West 1,276.82 feet to the easterly line of said Section 16; thence along said easterly line South 00°39'56" West 660.00 feet to the Section corner common to said Sections 15, 16 ,21 and 22; thence along the northerly line of said Section 21 South 89°51'02" West 1,992.05 feet; thence leaving said northerly line, South 00°46'26" West 664.03 feet; thence South 89°54'50" West 664.37 feet to the East line of the northwest quarter of Section 21; thence along said East line South 00°48'48" West 663.32 feet to the South line of the northerly half of the northwest quarter of said Section 21; thence along said South line South 89°58'15" West 2,657.96 feet to the West line of the northwest quarter of said Section 21; thence along said West line North 00°58'16" East 1,321.17 feet to the **POINT OF BEGINNING.**

Containing 57,125,475 square feet or 1,311.4205 acres, more or less, based on grid distance calculation.

VIII. LIST OF EXHIBITS

The following Exhibits are attached to and made a part of this Deed:

      A. Notice of Hazardous Substances Released or Disposed of and Notice of Remedial Actions Taken on the Property.

      B. Map of Remedial Actions Taken on the Property.

IN WITNESS WHEREOF, I have hereunto set my hand at the direction of the Secretary of the Air Force, the day and year first above written.

UNITED STATES OF AMERICA

By: _____
    JOYCE K. FRANK
    Deputy Director
    Air Force Base Conversion Agency

Certificate of Acknowledgment

Commonwealth of Virginia :
                 ss.
County of Arlington   :

On FEBRUARY 28 , 2001 before me, DEBRA L. DICKSON , a Notary Public, personally appeared JOYCE K. FRANK known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that (s)he executed the same in (his)(her) authorized capacity, and that by (his)(her) signature on the instrument, the entity on behalf of which (he)(she) acted, executed the instrument.

_____
Notary Public

My commission expires on DECEMBER 31, 2003 .

Appendix J-4
Wildlife Hazard Review

![Mead & Hunt logo]

July 28, 2022   sent via email

Mr. Adam Collier
Vice President - Planned Communities
Lewis Management Corporation
1156 North Mountain Avenue
Upland, California 91786

Subject: Wildlife Hazard Review of the West Campus Upper Plateau Specific Plan and Meridian Development project near March Air Reserve Base, Riverside County, California

Mr. Collier:

Meridian Park West, LLC (Meridian West) proposes to amend the *March Joint Powers Authority General Plan for March Air Reserve Base* through the adoption of the *West Campus Upper Plateau Specific Plan.* (Specific Plan) which addresses an approximately 818-acre area (Plan Area) adjacent to March ARB.[1] The Specific Plan will guide and direct the development of a portion of the Plan Area into a master-planned industrial park, known as the West Campus Upper Plateau. The adoption of the Specific Plan serves two main purposes:

- Provide design standards and guidelines for projects proposed within the boundaries of the West Campus Upper Plateau Specific Plan; and

- Support the terms and conditions of a 2012 Settlement Agreement between and among the Center for Biological Diversity (CBD), the San Bernadino Audubon Society, March Joint Powers Authority (JPA), and LNR Riverside, LLC as a means of environmental protection.

PROJECT LOCATION

The 818-acre Plan Area is located within the western portion of the March Joint Powers Authority (MJPA) jurisdiction, specifically within the West March Planning Subarea (see **Figure 1**). The Plan Area is located within the Airport Influence Area (AIA) of the March ARB as identified in the Riverside County Airport Land Use Compatibility Plan (ALUCP), which was prepared by the Riverside County Airport Land Use Commission (ALUC) (2014; **Figure 2**). The Plan Area is also addressed in the Air Installation Compatible Use Zones (AICUZ) Study for March ARB that was prepared by the U.S. Air Force (2018; see **Figure 3**).

As presented to the Riverside County ALUC during a meeting on May 12, 2022, the proposed plan is one component of a large project that includes:

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[1] The Specific Plan Executive Summary cites a Plan Area acreage of 807.9 acres. Table 2.1 cites a Plan Area of 817.9 acres. A Plan Area of 817.9 is cited throughout this letter report.

- **General Plan Amendment/Specific Plan.** The West Campus Upper Plateau Specific Plan (SP-9) contains development standards, design guidelines, infrastructure master plans, maintenance responsibilities, phasing schedule, and implementation procedures necessary to construct a business park in the Plan Area. Following General Plan Amendment/Specific Plan adoption, the March JPA will establish zoning that is consistent with the land uses and locations identified in the Specific Plan.

- **Industrial Development on Two Parcels.** Meridian proposes to construct two industrial buildings with mezzanines on separate parcels totaling 1,820,000 square feet on (combined) 115.88 acres. No development has been proposed for the other parcels within the Plan Area at this time.

- **Tentative Map Approval.** Meridian proposes a tentative tract map to divide 359.6 acres into specific lots development, streets, and open space. Mead & Hunt cannot comment on the tentative map because projects are not proposed in this area. Individual projects will be reviewed as they are proposed.

PROJECT REVIEW AND APPROACH

Many aviation facilities include large tracts of open, undeveloped land that provide added margins of safety and noise mitigation. These areas can also present potential hazards to aviation if they encourage/attract wildlife to enter an airport's approach or departure airspace or aircraft operations area. Constructed or natural areas — such as poorly drained locations, detention/retention ponds, roosting habitats on buildings, landscaping, odor-causing rotting organic matter (putrescible waste) disposal and some conservation-based land uses — can provide wildlife with ideal locations for feeding, loafing, reproduction, and escape. Mead & Hunt reviewed the Specific Plan to consider the potential effect of the proposed project to attract potentially hazardous wildlife to March ARB.

Mead & Hunt reviewed Information and policies related to the wildlife hazard management set forth in the following documents to consider the potential for the Specific Plan to increase potential wildlife hazards to aircraft operations at March ARB:

- *Riverside County ALUCP*, including countywide policies and specific policies associated with March ARB, and other applicable guidance;

- *Air Installations Compatible Land Use Zone Study for the March ARB*;

- Guidance set forth by the Federal Aviation Administration, specifically FAA Advisory Circular (AC) 150/5200-33C, "Wildlife Hazard Attractants On and Near Airports"; and

- Previous studies associated with potentially hazardous wildlife and the Bird/Wildlife Aircraft Strike Hazard (BASH) Plan for March ARB.

The following analysis was prepared under the direction of an FAA-qualified Airport Wildlife Biologist (QAWB) as set forth by FAA AC 150/5200-36B, "Qualifications for Wildlife Biologist Conducting Wildlife Hazard Assessments and Training Curriculums for Airport Personnel Involved in Controlling Wildlife Hazards on Airports."

A. Applicable Wildlife Hazard Management Guidance and Policies

1. FAA Advisory Circular (AC)150/5200-33C, Wildlife Hazards On And Near Airports

The FAA identifies hazardous wildlife as "Species of wildlife (birds, mammals, reptiles), including feral and domesticated animals, not under control that may pose a direct hazard to aviation (i.e., strike risk to aircraft) or an indirect hazard such as an attractant to other wildlife that pose a strike hazard or are causing structural damage to airport facilities (e.g., burrowing, nesting, perching)." FAA AC 150/5200-33C provides guidance to identify "wildlife attractants," or certain land uses that have the potential to attract hazardous wildlife on or near public-use airports. It also addresses airport development projects, including airport construction, expansion, and renovation, affecting aircraft movement near hazardous wildlife attractants. For airports that serve turbine-powered aircraft, the FAA suggests a separation of 10,000 feet between aircraft movement areas and potential wildlife attractants.

Specific wildlife attractants identified by the FAA include vegetation, habitats, and land use practices that can attract wildlife that poses a risk to aviation safety. Such land uses include, but are not limited to:

- **Waste disposal operations,** such as landfills, trash transfer stations, recycling centers that accept food waste, etc.

- **Water management facilities,** such as stormwater management retention/detention ponds that hold water for more than 48 hours or include emergent and submergent vegetation, artificial marshes, wetlands, wetland mitigation sites, and mitigation banks.

- **Dredge spoil containment areas,** which include the application of unconsolidated rock, soil, or shell materials extracted and deposited during dredging and dumping activities.

- **Agricultural activities,** including crop production and livestock production.

- **Aquaculture,** including freshwater and marine aquaculture.

- **Golf courses and landscaping.** The FAA recommends against the construction of new golf courses and also recommends that a QAWB review all landscaping plans based on their geographic location, their ability to produce seeds/fruits/berries, and their potential to provide nesting cover. If a hazardous wildlife attractant is detected, immediate corrective actions should be taken.

- **Structures,** which can attract birds for nesting, roosting, and loafing (e.g., flat rooftops, light posts, towers, etc.

- **Other attractants,** such as conservation easements, parks/open space, and wildlife management areas, that may have the potential to attract hazardous wildlife.

The FAA also warns against the synergistic effects of surrounding land uses, which can occur when two or more land uses may create a wildlife corridor directly through the airport and/or surrounding airspace.

2. Air Installation Compatible Use Zones Study for March Air Reserve Base

The Air Installation Compatible Use Zone (AICUZ) for March ARB outlines the location of runway clear zones, aircraft accident potential zones, and noise contours and provides recommendations for development compatible with military flight operations. The Air Force Reserve Command provides the study so that local governments can incorporate the study recommendations into community plans, zoning ordinances, subdivision regulations, building codes, and other documents (Air Force, 2018).

AICUZ Study Section 5.3, Hazards to Aircraft Flight Zones, presents a discussion on Bird/Wildlife Strike Hazard (BASH), and notes that:

> Wildlife represents a significant hazard to flight operations. Birds, in particular, are drawn to different habitat types found in the airfield environment including hedges, grass, brush, forest, water, and even the warm pavement of the runways. Although most bird and animal strikes do not result in crashes, they cause structural and mechanical damage to aircraft as well as loss of flight time.

To reduce the potential for strike hazards, the Air Force recommends against the development of land uses that attract birds near installations that support an active air operations mission, specifically in clear zones and accidental zones. The land uses include most of those identified by the FAA in AC 150.5200-33C and include, but are not limited to: waste disposal operations, wastewater treatment facilities and transfer stations, landfills, golf courses, wetlands, stormwater ponds/retention basins, dredge disposal sites, and fruit trees.

3. Riverside County Airport Land Use Compatibility Plan

Following Specific Plan adoption, the March JPA will establish zoning in the Plan Area that is consistent with the land uses and locations and uses identified in the Specific Plan. As Shown in **Figure 2,** Specific Plan Compatibility Zones, the Upper Plateau Specific Plan Area includes portions of Airport Compatibility Zones B1, B2, C1, and C2. ALUCP Table MA-2, Basic Compatibility Criteria for the March Air Reserve Base/Inland Port Airport, is presented as **Figure 4.** The table presents site-specific policies for the March AIA. Should conflicts occur between the county-wide policies and the site-specific policies for March ARB, the site-specific polices prevail.

ALUCP policies associated with wildlife hazard management and each Compatibility Zone are summarized below:

- **Zone B1 - Inner Approach Departure Zone.** Uses listed in AICUZ as not compatible in APZ 1 or APZ II and "hazards to flight" as identified in B2 below.

- **Zone B2 - High Noise Zone.** Prohibited uses include "Hazards to flight." Table MA-2 identifies hazards to flights as:

> "Land use development that may cause the attraction of birds to increase is also prohibited. Man-made features must be designed to avoid heightened attraction of birds. In Zones A, B1, and B2, flood control facilities should be designed to hold water for no more than 48 hours following a storm and be completely dry between storms (see FAA Advisory Circular 150/5200-33B). Additionally, certain farm crops and farming practices that tend to attract birds are strongly discouraged. These include: certain crops (e.g., rice, barley, oats, wheat – particularly durum – corn, sunflower, clover, berries, cherries, grapes, and apples); farming activities (e.g., tilling and harvesting); confined livestock operations, and fish production…."

- **Zone C1 - Primary Approach/Departure Zone.** Prohibited uses include "hazards to flight" (see item B2).

- **Zone C2 - Flight Corridor Zone.** Prohibited uses include "hazards to flight."

B. General Plan Update/Specific Plan Review

Mead & Hunt reviewed the Proposed Specific Plan for its consistency with wildlife hazard management guidance and policies included in the documents cited above. Mead & Hunt did not consider consistency with other compatibility issues, such as noise exposure, overflight, etc.

As summarized in the Specific Plan, the Center for Biological Diversity (CBD), the San Bernardino Valley Audubon Society, the March MJPA, and LNR Riverside LLC, entered into a Settlement Agreement on September 12, 2012 (CBD Settlement Agreement). The CBD Settlement Agreement contemplated the division of western acreage under the jurisdiction of the MJPA, including the Plan Area, into Conservation Area, Developable Area, Proposed Park Area, and Water Quality - Open Space Area. The proposed Specific Plan would support the implementation of the CBD Settlement Agreement.

Chapter 2: Specific Plan Land Uses and Overlay Districts

The Specific Plan identifies several land uses for the approximately 818-acre Plan Area as summarized below:

- **Business Park (65.35 acres).** Business park areas are characterized as major employment concentrations. Outdoor storage as a primary use is prohibited.

- **Industrial (143.56 acres).** Industrial development may support manufacturing and non-manufacturing uses from warehouse and distribution facilities to industrial activities, including open storage, office/industrial parks, light industry, manufacturing, research and development centers, maintenance shops, and emergency services centers. The area devoted to outdoor storage may not exceed the building area.

- **Mixed use (42.22 acres).** Complementary land uses may include commercial, business park, office, medical, educational and vocational, research and development, and services.

- **Public Facility (5.71 acres).** Public facility uses include a wide range of public, quasi-public, and private uses such as public cultural and historical facilities, government administrative offices and facilities, public utilities, and major transportation corridors. However, land uses determined to be sensitive to, or incompatible with, aviation operations shall be excluded.

- **Park (10.88 acre).** A park will be established in the northwestern corner of the West Campus Upper Plateau area for both active and passive use including ball fields, exercise nodes, playground and picnic areas, and restrooms.

- **Open Space (67.11 acres).** Open space will be designated for hiking trails and other passive uses. The area will generally remain in its natural state, with the exception of planned hiking trails. Two trailheads will provide parking areas, benches, and information kiosks, etc.

- **Open Space - Conservation (445.47 acres).** The Plan Area includes an Open Space - Conservation Area as part of the Settlement Agreement. A majority of the Conservation Area is proposed within the eastern portion of the Plan Area. Several existing recreational trails are present throughout the Open Space - Conservation Area.

- **Roadways (37.70 acres).** Paved roads will provide access to and within specific land use areas throughout the Plan Area.

The following analysis considers these land uses and their potential to attract potentially hazardous wildlife to March ARB by considering individual topic areas presented in the Specific Plan.

Overlay Areas

Section 2.5 describes overlay zones that apply within Plan Area boundaries. The first paragraph in Section 2.5 states that the Specific Plan "provides land use regulations relating to safety (both for air navigation and for people within the West Campus Upper Plateau), noise impacts, and building heights," and subsequent paragraphs summarize those regulations (section 2.5.1). However, the discussion does not identify hazards to flight associated with wildlife hazard attractants.

> **Recommendation:** The discussion should be amended to address hazards to flight associated with wildlife hazard attractants.

Chapter 3: Development Regulations

Chapter 3 establishes the permitted and development standards that will apply to proposed development in the Plan Area. Mead & Hunt offers several recommendations on the Development Standards to prevent the creation of hazardous wildlife attractants.

- **Table 3.1 - West Campus Upper Plateau Specific Plan Land Use Table.** Some conditionally acceptable land uses could conflict with ALUCP policies and FAA guidance pertaining to wildlife attractants, such as Bar and Grill, Open Air Markets for Agricultural Products, Recycling Facilities, and Restaurants (Fast Food and Sit Down).

Such facilities have the potential to attract hazardous wildlife based on the presence of outdoor dining, food waste, and inadequate trash storage/disposal practices.

> **Recommendation:** The Specific Plan should provide guidance to guard against the accumulation and storage of food and waste storage (see comments provided for Chapter 4).

- **3.5.1 Lot Development.** Policy 3.5.1, Lot Development, paragraph 3 states, "Construction of objects taller than 50 feet in the Height Caution Zone will require review by the Airport Land Use Commission. This does not comply with ALUCP Table MA-2, which also requires the review of objects greater than 35 feet tall in Zones B1 and B2 and the review of objects greater than 70 feet tall in Zones C1 and C2, even if they are located outside of the high terrain area.

> **Recommendation:** Revise Policy 3.5.1 to comply with the ALUCP.

- **3.5.7 Conceptual Building Layouts.** Section 3.5.7 provides conceptual layouts for the two structures proposed as part of the proposed project. The conceptual plans appear to be consistent with applicable guidance, but a detailed review of the proposed project, including landscape and stormwater management plans, could not be performed as detailed plans are not available at this time. If the proposed plans for both structures comply with the Specific Plan Guidance and the recommendations included in this analysis, it will be consistent with the Specific Plan and Riverside County ALUCP.

> **Recommendation:** Provide detailed plans for review as they become available.

Chapter 4: Design Guidelines

Chapter 4 seeks to provide guidance to developers, builders, engineers, architects, landscape architects, and other professionals to achieve and maintain the desired design quality and character of the built environment expected for the Plan Area. **Table 1** identifies modifications to specific measures to address potential wildlife hazards. Landscaping recommendations are discussed separately.

Table 1. Recommended Modifications to Chapter 4, Design Guidelines	
Section	**Recommendation**
4.3.1 Building Form	Amend Item 4.3.1e as follows: e. Pedestrian and ground-level building entries intended for visitor use should be recessed or covered by architectural projections, roofs, or arcades in order to provide shade and visual relief. <u>Projections should be treated with anti-perching devices to discourage wildlife (e.g. birds) from perching, roosting, and nesting. Recessed areas should be screened or equipped with bird slides to prevent nesting.</u>

4.4.1 Walls and Fences	Section 4.4.1, third paragraph, states that landscaping within and outside of roadway rights-of-way serve as additional screening. Item "b" states:
	b. Landscaping may be used for visual screening instead of walls and fences where a solid physical barrier is not needed.
	The Riverside County ALUC has prepared specific guidelines for landscaping within the Airport Influence Area that warn against overlapping crowns at maturity and recommend the use of mixed vegetation to provide varied heights, both at the time of planting and at maturity. This guidance could be considered counter-intuitive to the Item 4.4.1b as presented. Item 4.4.1b should be amended as follows:
	b. Landscaping may be used for visual screening instead of walls and fences where a solid physical barrier is not needed. <u>Landscape barriers must comply with Riverside County ALUC guidance, "Landscaping near Airports."</u>
4.4.2 Truck Courts and Loading Docks	item 4.4.2a should be amended as follows:
	a. Loading doors, service docks, and equipment areas should be oriented or screened to reduce visibility from public roads and publicly accessible locations within the West Campus Upper Plateau Specific Plan. Screening may be accomplished with solid walls or fences that are compatible with the architectural expression of the building. Screening may also be accomplished by landscaping <u>that complies with Riverside County ALUC guidance, "Landscaping near Airports."</u>
4.4.3 Ground or Wall-Mounted Equipment	Item 4.4.3a should be amended as follows:
	a. Ground-mounted equipment, including but not limited to mechanical or electrical equipment, emergency generators, boilers, storage tanks, risers, and electrical conduits, should be screened from public viewing areas including adjacent public roads. Screening may be accomplished with solid walls, or landscaping <u>that complies with Riverside County ALUC guidance, "Landscaping near Airports."</u>
4.4.5 Trash Enclosures	Birds and mammals are attracted to trash storage containers that include organic waste or to seek refuge. Item 4.4.5b should be modified and amended as follows:
	b. All outdoor trash enclosures shall be constructed with solid roofs to prevent exposure of dumpster contents to rainfall and prevent polluted stormwater runoff from entering these structures. <u>Such enclosures must accommodate covered dumpsters and waste receptacles that shall remain closed at all times, and their dimensions must accommodate the opening and closing of the dumpsters and receptacles.</u>
4.4.6 Outdoor Lighting	Section 4.4.6 should be amended to include the following:
	j. <u>Lighting poles and lights fixtures must be equipped with anti-perching devices to discourage wildlife (e.g. bird) use.</u>
4.4.7 Signage Guidelines	Item 4.4.6 h should be amended as follows:
	h. <u>Signs shall be constructed to not have exposed wiring, raceways, ballasts, conduit, transformers, or the like, and shall be equipped with anti-perching devices to discourage wildlife (e.g. bird) use.</u>

4.5 Landscape Design Guidelines

Section 4.5, Landscape Design Guidelines, identifies principles and standards that will apply to the Plan Area. The Specific Plan states that "these Guidelines are intended to be flexible, and are subject to modification over time. However, any deviations from these Landscape Guidelines are to be in keeping with the spirit of the core elements of the over theme described herein….". The guidance also states, "The landscaping plan serves the dual purpose of providing visual appeal while also being sensitive to the environment and climate by using drought tolerant materials."

Landscaping is identified by the FAA as an important element in managing hazardous wildlife on and near airports, as plant materials can provide food, shelter, roosting and nesting habitat. Although the project is located within the AIA for March ARB, the current Specific Plan landscaping guidance does not address the relationship between landscaping and wildlife hazard management. As previously stated, ALUCP Table MA-2 identifies "hazards to flight" as a prohibited use and identifies wildlife attractants as a "hazard to flight" (note 8).

> **Recommendation:** Amend Section 4.5 to identify or describe the following:
> - The relationship between landscaping, wildlife attractants, and hazards to flight and the importance of addressing the creation of potential wildlife attractants during landscape design and installation;
> - The necessity of preparing landscape plans that will not provide food, shelter, roosting, or nesting habitat for birds or mammals; and
> - A requirement that landscaping plans that deviate from the Landscape Design Guidelines must be reviewed by a QAWB prior to approval.

4.5.1 Plant Palette

The second paragraph of Section 4.5.1 states, "A list of plant materials approved for use in the Specific Plan is provided for in Appendix A - Landscape Plant Palette. The plants listed establish a base palette for the landscape design. Other similar plant materials may be substituted for species listed in Appendix A, provided the alternative plants are drought-tolerant and complement the Specific Plan design theme." The discussion also refers to the ALUC's "Landscaping Near Airports" brochure and states that "the general planting guidelines shall also be considered."

> **Recommendation:** Amend the language in Section 4.5.1 to require that proposed plant materials that deviate from the Landscape Guidance must be reviewed by a QAWB prior to approval.

Mead & Hunt reviewed the plant palette identified in Appendix A and identified some species that are inappropriate for proposed projects in the AIA. Table 2 identifies species that should be deleted from Appendix A because they provide food sources, habitat, or other features that are attractive to potentially hazardous wildlife.

Table 2. Plant Materials Attractive to Potentially Hazardous wildlife	
Botanical Name	**Common Name**
Trees	
Arbutus unedo	Strawberry Tree
Arbutus 'Marina'	Marina Strawberry Tree
Callistemon viminalis	Weeping Bottlebrush
Chilopsis linearis 'Burgundy Lace'	Burgundy Lace Desert Willow
Chitalpa tashkentensis	Chitalpa
Cinnamonum camphora	Camphor Tree
Eriobotrya japonica	Loquat
Eriobotrya deflexa	Bronze Loquat
Juglans californica	California Walnut
Juglans hindsii	California Black Walnut
Laurus nobilis 'Saratoga'	Saratoga Laurel
Pistacia chinensis	Chinese Pistache
Prosopis chilensis	Thornless Chilean Mesquite
Pyrus calleryana 'Aristocrat'	Aristocrat Pear
Tabebuia impetiginosa	Pink Trumpet Tree
Tecoma stans	Yellow Bells
Quercus spp.	Oak
Shrubs	
Anigozanthos	Kangaroo Paw
Anisacanthus quadrafidus var. Wrightii	Flame Acanthus
Callistemon viminalis 'Little John'	Little John Callistemon
Dianella revoluta 'Little Rev'	Little Rev Flax Lily
Dianella tasmanica	Variegated Flax Lily
Dodonaea viscosa 'Purpurea'	Purple Hopseed
Elaeagnus pungens	Silverthorn
Leucophyllum frutescens + cvs	Texas Ranger
Leymus condensatus 'Canyon Prince'	Canyon Prince Wild Rye
Olea europea 'Little Ollie'	Dwarf Olive
Phlomis fruticosa	Jerusalem Sage
Rhaphiolepis spp.	Indian Hawthorn
Stachys byzantine	Lamb's Ear
Trichostema lanatum	Woolly Blue Curls
Elymus triticoides	Creeping Wild Rye

Recommendation: Remove plant species identified in **Table 2** from the Specific Plan plant palette in Appendix A.

4.5.3 Streetscapes

Several of the streetscape figures presented in section 4.5.3 include plant materials that were identified for deletion are noted **Table 2**. Such figures include, but are not limited to, Figure 4-4 (Creeping Wild Rye), Figure 4.5 (Creeping Wild Rye), Figure 4-6 (Saratoga Laurel and Dwarf Olive), 4-7 (Creeping Wild Rye).

Recommendation: Review and revise these figures to eliminate the species identified in **Table 2.**

4.5.4 Entries and Monuments

Figure 4-8 identifies typical Corner Plantings.

> **Recommendation:** Revise the figure to eliminate Holly Oak.

4.5.5 Open Space Areas

The Specific Plan states, "With exception to passive use activity proposed within the open space area west of Barton Street, the open space areas are primarily intended to maintain landscaping and an overall aesthetic consistent with the current undeveloped environment."

> **Recommendation:** This paragraph should be amended to indicate that the landscaping should be "maintained with an aesthetic consistent with the current undeveloped environment while considering <u>aviation safety in accordance with the Landscape Design Guidance, the Riverside County ALUCP, and ALUC guidance "Landscaping Near Airports."</u>

Chapter 6: Infrastructure and Grading

6.5 Storm Water Management

The Specific Plan provides stormwater management facilities in accordance with FAA guidance and Riverside County ALUC guidance regarding stormwater management and detention times, and no new stormwater management ponds are proposed.

The first paragraph of this section states, "stormwater in the northeastern portion of the Project area will be detained and flow to a detention basin on Alessandro Boulevard via an open channel. Storm water in other parts of the Specific Plan Area will be detained and flow through a storm drain system and ultimately discharged to existing native flow lines." The section concludes, "The storm drain system would ultimately connect with various open native channels and carry stormwater off the Specific Plan Area…."

If the connections to these open channels and native areas require modification to accommodate site-related runoff, such modification must consider their potential to attract potentially hazardous wildlife to March ARB.

> **Recommendation:** Amend the paragraph to include the following text: In the event that open channels or native flow lines require modification tin include additional project-related drainage, <u>the modifications must be designed so that they do not include habitat enhancements to support potentially hazardous wildlife through the incorporation of vegetation that provides food, shelter, or nesting habitat for wildlife</u>.

6.7 Solid Waste

> **Recommendation:** Amend the solid waste discussion to include the following text: <u>Solid waste that is stored on site for recycling and disposal must be contained in covered receptacles that remain closed at all times</u>."

6.8.1 Grading and Development

Section 6.8.1 includes several bullet items to describe grading plan development standards.

> **Recommendation:** Amend the seventh bullet item as follows:
> - Potential brow [sic] ditches, terrace drains, or other minor swales, determined necessary at future stages of project review, shall be concealed, as feasible and possible, with landscape plantings, earth berms and similar features. <u>Seed mixes used for soil stabilizations shall be reviewed by a QAWB and revised as necessary to exclude the use of grains or other constituents that may attract potentially hazardous wildlife.</u>

Chapter 8: Consistency with the General Plan

Chapter 8 states, "The West Campus Upper Plateau Specific Plan is based upon the goals and policies set forth in the March JPA General Plan and presents those General Plan elements and policies. Relevant policies associated with aircraft operations at the March ARB include the following:

- **Land Use Goal 6** refers specifically to "the continued Military Mission of March ARB, and preservation of the airfield from incompatible land use encroachment." The Specific Plan evaluation concludes that, "The industrial, mixed use, and recreation activities consistent with other existing uses within the March JPA boundary. These uses will support the Military Mission of the March ARB."

  While it is true that the proposed land uses associated with the Upper Plateau development are consistent with the March JPA General Plan, it is also true that more than half of the acreage in the Plan Area will be used for habitat conservation in response to the Settlement Agreement, which will result in the in the establishment of a permanent conservation easement.

- **Safety/Risk Management Goal 7** identifies the need to "Reduce the possible risk of upset, injury and loss of life, property damage, and other impacts associated with an aviation facility." The Specific Plan contends that it is consistent with this goal as it was designed to incorporate appropriate uses in development-limited areas in accordance with the 1998 AICUZ study and the ALUCP.

The proposed project is consistent with many policies associated with aviation guidance related to safety and hazardous wildlife management, but several inconsistencies were identified. Moreover, the majority of the Plan Area will be used for Open Space - Conservation in accordance with the 2012 Settlement Agreement for the purpose of habitat conservation, and a permanent conservation easement will be placed on the property.

The proposed Open Space - Conservation Area will require the development of passive trails and periodic maintenance. Such activities will be undertaken in accordance with the Specific Plan. However, a permanent conservation easement may be inconsistent with ongoing aircraft operations unless specific provisions are included to address the presence of hazardous wildlife attractants that may require modification to support the ongoing Military Mission at March ARB, as stated in the March JPA General Plan. At this time, specific plans/designs for the Open Space - Conservation Area are not available.

FAA AC 150/5200-33C identifies conservation areas and wildlife management areas as having the potential to attract hazardous wildlife. The implementation of habitat enhancements and the establishment of a permanent conservation easement may attract hazardous wildlife to the aircraft operations area and the AIA for March ARB. The AC states that a QAWB should evaluate proposed mitigation projects before the mitigation is implemented, and "Regardless of the source of the attraction, when hazardous wildlife is noted on a public-use airport, the airport operator should take prompt remedial action(s) to protect aviation safety."

Recommendations: The following items should be incorporated into the Specific Plan to promote ongoing safety of aircraft operations at March ARB:

- Design plans for the development of the proposed Open Space - Conservation Area shall be reviewed by a QAWB for their consistency with the 2018 AICUZ, ALUCP, FAA guidance, and the current BASH Plan for March ARB. Inconsistent items should be revised to address the safety of ongoing aircraft operations.

- A proposed permanent conservation easement shall be reviewed by an Aviation Planner and QAWB to identify potential conflicts for ongoing aircraft operations and the Military Mission at March ARB. If potential conflicts are identified, safety concerns shall prevail.

- In the event that the conditions within the Plan Area, including areas within conservation easements, are identified as attracting potentially hazardous wildlife or increasing wildlife risks to aircraft operations, the land use, easement, and conservation practices shall be modified to remove the hazard. In the event that the remedial action conflicts with the conservation goals, safety concerns shall prevail.

CEQA CONSIDERATIONS

The General Plan Amendment/Specific Plan will be subject to environmental review in accordance with the California Environmental Quality Act (CEQA). As part of that CEQA analysis, an applicant must consider whether a proposed project would, "Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect" (CEQA Guidelines, Appendix G). The proposed Upper Plateau Specific Plan is located within the Airport Influence Area (AIA) identified in the adopted 2014 March ARB/Inland Port ALUCP; therefore, the proposed project is subject to review by the Riverside County ALUC to determine its consistency with the adopted ALUCP, including policies associated with wildlife attractants and hazards to flight. A determination of inconsistency by the ALUC would be considered a significant impact pursuant to CEQA. The incorporation of the recommended modifications identified in this review would make the Specific Plan consistent with agency guidance, the 2018 AICUZ, and the Riverside County ALUCP with regard to potentially hazardous wildlife.

LIMITATIONS ON THIS REVIEW

At the time of this review, neither a Biological Resources Report nor a draft CEQA document were available to provide more detailed input regarding current site conditions. Additional review pertaining to wildlife hazard management and aviation safety must be addressed as part of the EIR analysis.

Thank you for this opportunity to review the West Campus Upper Plateau Specific Plan. Should you have any questions, please reach out to me (Rick.Jones@meadhunt.com) or Lisa Harmon (lisa.harmon@meadhunt.com) by email or contact Lisa by telephone (916-993-4650).

Sincerely,
MEAD & HUNT INC.

Rick Jones
FAA-Qualified Airport Wildlife Biologist

Attachments:
Figure 1 – Project Location
Figure 2 – Airport Land Use Compatibility Zones within the Plan Area
Figure 3 – AICUZ for March ARB
Figure 4 – Table MA-2, Basic Compatibility Criteria for the March Air Reserve Base/Inland Port Airport

FIGURE 1 – PROJECT LOCATION

Figure ES-1
Regional Location Map

FIGURE 2 – AIRPORT LAND USE COMPATIBILITY ZONES WITHIN THE PLAN AREA

BUSINESS PARK:	65.35 AC
INDUSTRIAL:	143.46 AC
STREETS:	37.7 AC
PUBLIC FACILITIES:	2.84 AC
PARK:	10.88 AC
OPEN SPACE:	87.11 AC
NET DEVELOPABLE	369.56 AC
PUBLIC FACILITY - EXISTING	2.87 AC
OPEN SPACE- CONSERVATION	445.05 AC
GROSS ACREAGE:	817.90 AC

High Terrain Zone

Compatibility Zones
A - Clear Zone
B1 - Inner Approach/ Departure Zone
B2 - High Noise Zone
C1 - Primary Approach/ Departure Zone
C2 - Flight Corridor Zone
D - Flight Corridor Buffer
E - Other Airport Environs
M - Military

Sources:
West Campus Upper Plateau Specific Plan, T&B Planning, Inc. April 2022.
March Air Reserve Base Inland Port Airport Land Use Compatibility Plan, Mead & Hunt, Inc. Nov. 13, 2014.

FIGURE 3 – AICUZ FOR MARCH ARB

ALUC Zones and Clear Zones/Accident Potential Zones   Figure 6-4

FIGURE 4 – TABLE MA-2, BASIC COMPATIBILITY CRITERIA FOR THE MARCH AIR RESERVE BASE/INLAND PORT AIRPORT

Zone	Locations	Density / Intensity Standards				Additional Criteria	
		Residential (d.u./ac) [1]	Other Uses (people/ac) [2]		Req'd Open Land	Prohibited Uses [3]	Other Development Conditions [4]
			Average [5]	Single Acre [6]			
M	Military					› No ALUC authority	
A	Clear Zone [7]	No new dwellings allowed	0	0	All Remaining	› All non-aeronautical structures › Assemblages of people › Objects exceeding FAR Part 77 height limits › All storage of hazardous materials › Hazards to flight [8]	› Electromagnetic radiation notification [9] › Avigation easement dedication and disclosure [4,7]
B1	Inner Approach/ Departure Zone	No new dwellings allowed [10]	25 (APZ I) 50 (APZ II and outside APZs) [11]	100 100	Max. 50% lot coverage within APZs [12]	› Children's schools, day care centers, libraries › Hospitals, congregate care facilities, hotels/ motels, restaurants, places of assembly › Bldgs with >1 aboveground habitable floor in APZ I or >2 floors in APZ II and outside of APZs [13] › Hazardous materials manufacture/storage [14] › Noise sensitive outdoor nonresidential uses [15] › Critical community infrastructure facilities [16] › Hazards to flight [8] › Uses listed in AICUZ as not compatible in APZ I or APZ II [17]	› Locate structures maximum distance from extended runway centerline › Sound attenuation as necessary to meet interior noise level criteria [18] › Zoned fire sprinkler systems required › Airspace review req'd for objects >35 ft. tall [19] › Electromagnetic radiation notification [9] › Avigation easement dedication and disclosure [4]
B2	High Noise Zone	No new dwellings allowed [10]	100	250	No Req't	› Children's schools, day care centers, libraries › Hospitals, congregate care facilities, hotels/ motels, places of assembly › Bldgs with >3 aboveground habitable floors › Noise-sensitive outdoor nonresidential uses [15] › Critical community infrastructure facilities [16] › Hazards to flight [8]	› Locate structures max. distance from runway › Sound attenuation as necessary to meet interior noise level criteria [18] › Aboveground bulk storage of hazardous materials discouraged [14,20] › Airspace review req'd for objects >35 ft. tall [19] › Electromagnetic radiation notification [9] › Avigation easement dedication and disclosure [4]
C1	Primary Approach/ Departure Zone	≤3.0	100	250	No Req't	› Children's schools, day care centers, libraries › Hospitals, congregate care facilities, places of assembly › Noise-sensitive outdoor nonresidential uses [15] › Hazards to flight [8]	› Critical community infrastructure facilities discouraged [16,20] › Aboveground bulk storage of hazardous materials discouraged [14,20] › Sound attenuation as necessary to meet interior noise level criteria [18] › Airspace review req'd for objects >70 ft. tall [19] › Electromagnetic radiation notification [9] › Deed notice and disclosure [4]
C2	Flight Corridor Zone	≤ 6.0	200	500	No Req't	› Highly noise-sensitive outdoor nonresidential uses [15] › Hazards to flight [8]	› Children's schools discouraged [20] › Airspace review req'd for objects >70 ft. tall [19] › Electromagnetic radiation notification [9] › Deed notice and disclosure [4]
D	Flight Corridor Buffer	No Limit	No restriction [21]		No Req't	› Hazards to flight [8]	› Major spectator-oriented sports stadium, amphitheaters, concert halls discouraged [21] › Electromagnetic radiation notification [9] › Deed notice and disclosure [4]
E	Other Airport Environs	No Limit	No Restriction [21]		No Req't	› Hazards to flight [8]	› Disclosure only [4]
*	High Terrain	Same as Underlying Compatibility Zone			Not Applicable	› Hazards to flight [8] › Other uses restricted in accordance with criteria for underlying zone	› Airspace review req'd for objects >35 ft. tall [19] › Avigation easement dedication and disclosure [4]

Table MA-2

Basic Compatibility Criteria

March Air Reserve Base / Inland Port Airport

FIGURE 4 (CONTINUED)

NOTES:

Policies referenced here are from the *Riverside County Airport Land Use Compatibility Plan* adopted by the Riverside County ALUC for other airports beginning in October 2004. The countywide policies are hereby incorporated into the *March ARB/IPA ALUCP* except as modified or supplemented by the policies in Section MA.2 of this chapter. A complete copy of the *Riverside County Airport Land Use Compatibility Plan* is available on the Riverside County Airport Land Use Commission website at www.rcaluc.org.

[1] Residential development must not contain more than the indicated number of dwelling units (excluding secondary units) per gross acre. Clustering of units is encouraged provided that the density is limited to no more than 4.0 times the allowable average density for the zone in which the development is proposed. Gross acreage includes the property at issue plus a share of adjacent roads and any adjacent, permanently dedicated, open lands. Mixed-use development in which residential uses are proposed to be located in conjunction with nonresidential uses in the same or adjoining buildings on the same site shall be treated as nonresidential development for the purposes of usage intensity calculations; that is, the occupants of the residential component must be included in calculating the overall number of occupants on the site. A residential component shall not be permitted as part of a mixed use development in zones where residential uses are indicated as incompatible. See Countywide Policy 3.1.3(d). All existing residential development, regardless of densities, is not subject to ALUC authority.

[2] Usage intensity calculations shall include all people (e.g., employees, customers/visitors, etc.) who may be on the property at a single point in time, whether indoors or outside.

[3] The uses listed here are ones that are explicitly prohibited regardless of whether they meet the intensity criteria. In addition to these explicitly prohibited uses, other uses will normally not be permitted in the respective compatibility zones because they do not meet the usage intensity criteria. See *Riverside County Airport Land Use Compatibility Plan*, Volume 1, Appendix D for a full list of compatibility designations for specific land uses.

[4] As part of certain real estate transactions involving residential property within any compatibility zone (that is, anywhere within an airport influence area), information regarding airport proximity and the existence of aircraft overflights must be disclosed. This requirement is set by state law. See Countywide Policy 4.4.2 for details. Easement dedication and deed notice requirements indicated for specific compatibility zones apply only to new development and to reuse if discretionary approval is required. Except within Zone A (Clear Zone), avigation easements are to be dedicated to the March Inland Port Airport Authority. See sample language in www.marchjpa.com/docs_forms/avigationeasement.pdf. Any avigation easements required within Zone A shall be dedicated to the United States of America.

[5] The total number of people permitted on a project site at any time, except rare special events, must not exceed the indicated usage intensity times the gross acreage of the site. Rare special events are ones (such as an air show at the airport) for which a facility is not designed and normally not used and for which extra safety precautions can be taken as appropriate.

[6] Clustering of nonresidential development is permitted. However, no single acre of a project site shall exceed the indicated number of people per acre. See Countywide Policy 4.2.5 for details.

[7] Clear zone (equivalent to runway protection zone at civilian airports) limits that delineate Zone A are derived from locations indicated in the March Air Reserve Base AICUZ study. See Note 4 for avigation easement dedication requirements in this zone.

[8] Hazards to flight include physical (e.g., tall objects), visual, and electronic forms of interference with the safety of aircraft operations. Land use development that may cause the attraction of birds to increase is also prohibited. Man-made features must be designed to avoid heightened attraction of birds. In Zones A, B1, and B2, flood control facilities should be designed to hold water for no more than 48 hours following a storm and be completely dry between storms (see FAA Advisory Circular 150/5200-33B). Additionally, certain farm crops and farming practices that tend to attract birds are strongly discouraged. These include: certain crops (e.g., rice, barley, oats, wheat – particularly durum – corn, sunflower, clover, berries, cherries, grapes, and apples); farming activities (e.g., tilling and harvesting); confined livestock operations (i.e., feedlots, dairy operations, hog or chicken production facilities, or egg-laying operations); and various farming practices (e.g., livestock feed, water, and manure). Fish production (i.e., catfish, trout) conducted outside of fully enclosed buildings may require mitigation measures (e.g., netting of outdoor ponds, providing covered structures) to prevent bird attraction. Also see Countywide Policy 4.3.7.

[9] March ARB must be notified of any land use having an electromagnetic radiation component to assess whether a potential conflict with Air Base radio communications could result. Sources of electromagnetic radiation include microwave transmission in conjunction with a cellular tower, radio wave transmission in conjunction with remote equipment inclusive of irrigation controllers and other similar EMR emissions.

[10] Other than in Zone A, construction of a single-family home, including a second unit as defined by state law, on a legal lot of record is exempted from this restriction where such use is permitted by local land use regulations. Interior noise level standards and avigation easement requirements for the compatibility zone in which the dwelling is to be located are to be applied.

[11] Non-residential uses are limited to 25 people per gross acre in Accident Potential Zone (APZ) I and 50 people per acre in APZ II and elsewhere in Zone B1. Single-acre intensity limits are 100 people/acre throughout Zone B1.

[12] In APZ I, any proposed development having more than 20% lot coverage must not provide on-site services to the public. Zoned fire sprinklers are required. Also, in APZ I, site design of proposed development should to the extent possible avoid placement of buildings within 100 feet of the ex-

Table MA-2, continued

FIGURE 4 (CONTINUED)

tended runway centerline; this center strip should be devoted to parking, landscaping, and outdoor storage. Maximum lot coverage is not limited outside the APZs.

[13] Within APZ II and outside APZs, two-story buildings are allowed.

[14] Storage of aviation fuel and other aviation-related flammable materials on the airport is exempted from this criterion. In APZ I, manufacture or bulk storage of hazardous materials (toxic, explosive, corrosive) is prohibited unless storage is underground; small quantities of materials may be stored for use on site. In APZ II and elsewhere within Zone B1, aboveground storage of more than 6,000 gallons of nonaviation flammable materials per tank is prohibited. In Zones B2 and C1, aboveground storage of more than 6,000 gallons of hazardous or flammable materials per tank is discouraged.

[15] Examples of noise-sensitive outdoor nonresidential uses that should be prohibited include major spectator-oriented sports stadiums, amphitheaters, concert halls and drive-in theaters. Caution should be exercised with respect to uses such as poultry farms and nature preserves.

[16] Critical community facilities include power plants, electrical substations, and public communications facilities. See Countywide Policy 4.2.3(d).

[17] For properties in either APZ I or II, any use listed as "N – not compatible" for that particular APZ in Table 3-1 of the 2005 *Air Installation Compatible Use Zone Study for March Air Reserve Base*. Beyond the boundaries of the APZs in Zone B1, such uses are discouraged, but not necessarily prohibited unless otherwise specified herein.

[18] All new residences, schools, libraries, museums, hotels and motels, hospitals and nursing homes, places of worship, and other noise-sensitive uses must have sound attenuation features incorporated into the structures sufficient to reduce interior noise levels from exterior aviation-related sources to no more than CNEL 40 dB. This requirement is intended to reduce the disruptiveness of loud individual aircraft noise events upon uses in this zone and represents a higher standard than the CNEL 45 dB standard set by state and local regulations and countywide ALUC policy. Office space must have sound attenuation features sufficient to reduce the exterior aviation-related noise level to no more than CNEL 45 dB. To ensure compliance with these criteria, an acoustical study shall be required to be completed for any development proposed to be situated where the aviation-related noise exposure is more than 20 dB above the interior standard (e.g., within the CNEL 60 dB contour where the interior standard is CNEL 40 dB). Standard building construction is presumed to provide adequate sound attenuation where the difference between the exterior noise exposure and the interior standard is 20 dB or less.

[19] This height criterion is for general guidance. Airspace review requirements are determined on a site-specific basis in accordance with Part 77 of the Federal Aviation Regulations. Shorter objects normally will not be airspace obstructions unless situated at a ground elevation well above that of the airport. Taller objects may be acceptable if determined not to be obstructions. The Federal Aviation Administration or California Department of Transportation Division of Aeronautics may require marking and/or lighting of certain objects. See Countywide Policies 4.3.4 and 4.3.6 for additional information.

[20] Discouraged uses should generally not be permitted unless no feasible alternative is available.

[21] Although no explicit upper limit on usage intensity is defined for *Zone D and E*, land uses of the types listed—uses that attract very high concentrations of people in confined areas—are discouraged in locations below or near the principal arrival and departure flight tracks.

Table MA–2, continued

Appendix J-5

Hazardous Material Investigation Report

Leighton Consulting, Inc.
A Leighton Group Company

May 5, 2022

Project No. 13226.004

Meridian Park West, LLC
1156 North Mountain Avenue
Upland, California 91786

Attention: Timothy Reeves / Adam Collier

Subject: **Hazardous Material (PCB / Treated Wood Waste) Investigation Report**
Meridian – West Campus Upper Plateau
Riverside, California 92508

Leighton Consulting, Inc. (Leighton) presents this report summarizing the results of a targeted hazardous materials investigation for potential PCB containing materials and treated wood waste (TTW) at the subject Site in Riverside County, California (see Site Location Map – **Figure 1**).

SCOPE OF WORK

The sampling was completed by Vista Environmental Consulting (VISTA), subcontractor to Leighton, with coordination, field oversight and project management by Leighton. Testing was completed on representative samples of the following materials:

1) Pole-mounted electrical transformers (PCBs);
2) Black electrical wrap (Askerals) (PCBs);
3) Capacitors on the ground near Building 5 (PCBs);
4) Wood Power Poles (limited SVOCs and limited metals);
5) Wood Perimeter Lighting Poles (limited SVOCs and limited metals);
6) Wood Security Lighting and Camera Poles (limited SVOCs and limited metals);
7) Wood Communication Poles (limited SVOCs and limited metals); and
8) Wood Framing for Electrical Substations (limited SVOCs and limited metals).

Attached Photos 1-7 (**Appendix A**) show the various sample collection activities.

RESULTS

Attached **Appendix B** is a copy of the VISTA report detailing the sampling and analytical procedures, as well as the results and recommendations associated with the investigation. Where certain buildings are referenced within the VISTA report, the locations of these building are shown on attached **Figure 2.**

CONCLUSIONS & RECOMMENDATIONS

See **Appendix B.**

Should you have any questions regarding this report, please contact the undersigned at (909) 527-8785.

Respectfully submitted,
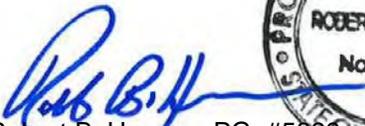
LEIGHTON CONSULTING, INC.

Robert B. Hansen, PG, #5839
Associate Environmental Geologist

Attachments: Figure 1 - Site Location Map
                 Figure 2 - Site Plan
                 Appendix A - Photographic Log
                 Appendix B - Vista Environmental Consulting Report

Distribution: Addressee

![Leighton logo]

Approximate Site Boundary

N

0   2,500   5,000
Feet

Project: 13226.003	Eng/Geol: RBH	**SITE LOCATION MAP**	**FIGURE 1**
Scale: 1 " = 2,500 '	Date: May 2022	Meridian-West Campus, Upper Plateau	Leighton
Basemap: ESRI ArcGIS Online 2022		Riverside, California	

SITE PLAN

Proposed Meridian Upper Plateau

Vista Grande Drive, Riverside, California

FIGURE 2

Legend

- ⊙ Approximate Location of Slant Boring
- ⊡ Approximate Location of Soil Sampling Trench
- ▭ Areas of Historical Environmental Concern
- ▭ Transformer
- ▭ Currently Fenced Former Ordnance Storage Area
- ▭ Building
- ▭ DG Stockpile
- ▭ Small Bunker
- ▭ Ordnance Bunkers
- ▭ Riverside County Parcel Boundary
- ▭ Approximate Site Limits

Project: 13226.003	Eng/Geol: RBH
Scale:1 " = 600 '	Date: May 2022
Base Map: ESRI ArcGIS Online 2022	

N

0   600   1,200
Feet

APPENDIX A

PHOTOGRAPHIC LOG

	PHOTOGRAPHIC RECORD
	2/23/2022

Client Name: **Meridian Park West, LLC**	Site Location: **Meridian – West Campus Upper Plateau, Riverside County, CA**	Project No. **13226.004**

Photo No. 1

View of Direction of Photo:

N/A

Description:

Electrical safing transformer prior to sampling.

Photo No. 2

View of Direction of Photo:

N/A

Description:

Opening top of pole mounted electrical transformer for sampling.

![Leighton 60th Anniversary]

PHOTOGRAPHIC RECORD
2/23/2022

| Client Name:
Meridian Park West, LLC | Site Location:
**Meridian – West Campus Upper Plateau,
Riverside County, CA** | Project No.
13226.004 |

Photo No. 3

View of Direction of Photo:

N/A

Description:

Sample of dielectric fluid from transformer collected.

Photo No. 4

View of Direction of Photo:

N/A

Description:

Sampling of black electrical feed wrap

	PHOTOGRAPHIC RECORD
Leighton 60th Anniversary	**2/23/2022**

Client Name: **Meridian Park West, LLC**	**Site Location:** **Meridian – West Campus Upper Plateau,** **Riverside County, CA**	**Project No.** **13226.004**

Photo No. 5

View of Direction of Photo:

N/A

Description:

Area east of Building No. 5 with small capacitors on the ground outside and and inside rooms in background.

Photo No. 6

View of Direction of Photo:

N/A

Description:

.

Example of typical capacitor on the ground.

	PHOTOGRAPHIC RECORD
Leighton 60th Anniversary	**2/23/2022**

Client Name: **Meridian Park West, LLC**	**Site Location:** **Meridian – West Campus Upper Plateau, Riverside County, CA**	**Project No.** **13226.004**

Photo No. 7

View of Direction of Photo:

N/A

Description:

Sampling of treated wood pole

APPENDIX B

VISTA ENVIRONMENTAL CONSULTING REPORT

April 26, 2022

Robert Hansen
Associate Environmental Geologist
Leighton Consulting, Inc.
10532 Acacia Street, Suite B-6
Rancho Cucamonga, CA 91730

RE: Hazardous Material (PCB/TWW) Investigation Results
March Air Reserve Base
Lewis – Meridian Upper Plateau Ordinance Area Project
Vista Project No. 21 0210 021

Dear Mr. Hansen:

At the request of Leighton Consulting, Inc., Vista Environmental Consulting (Vista) performed a limited hazardous materials survey of the Upper Plateau Ordinance Area on the grounds of March Air Reserve Base in Riverside, California (the Project Site). The original investigation, dealing predominately with construction materials, such as asbestos-containing materials, lead-based paints and Universal Waste Rule items, was reported under separate cover, in the Vista Hazardous Materials Testing Report dated 17 January 2022.

As a follow-up to the original investigation, it was determined that additional testing of potential hazardous materials that were not associated with buildings was required to better characterize potential hazards at the project site. Potential hazards not related to buildings, which were identified in the original investigation, included potential PCB-containing items and potential treated wood waste. During this investigation, testing was performed for these two potential hazards, as follows:

1. Dielectric fluids within Pole-mounted transformers were tested for PCB content.
2. Black Electrical Feed Wrap associated with power poles were tested for PCB content.
3. Capacitors found on the ground within and just outside of Building 5 were tested for PCB content.
4. Wood Power Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).
5. Wood Perimeter Lighting Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).
6. Wood Security Lighting and Camera Poles were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).

7. One Wood Communication Pole was tested to confirm that it was treated wood waste, but did not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).

8. Wood Framing for the Electrical Substation adjacent to Buildings 1 and 2 and the Electrical Substation East of Building 3 were tested to confirm that they are treated wood waste, but do not qualify to be federal hazardous waste as defined in 40 CFR 260-268 (the Resource Conservation and Recovery Act, generally referred to as RCRA).

Project scope included testing various non-building improvements and related materials to be impacted by proposed construction activities, which shall include demolition of most or all improvements within the project work area. Bulk testing for Treated Wood Waste components and bulk and oil testing for Polychlorinated Biphenyls (PCBs) were performed on 23 February 2022 by Vista employee Yvan Schmidt.

Results of the survey indicate that the following hazardous materials are present at the project site, as further described in Tables 1-8, which follow.

Table 1 - Hazardous Materials Summary – Pole-Mounted Transformers

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY[1]
Dielectric Fluid	Yellow to Amber Oil	Pole-Mounted Transformers	PCB	42 Transformers (See Note 1)

Notes to Table 1:

1. One of three samples collected of pole-mounted transformer dielectric mineral oil was determined to contain 1.5 mg/kg of Aroclor 1260, well below the regulatory level of concern of 50 mg/kg set forth in 40 CFR 761. There was no PCB/Aroclor identified in either of the other two samples collected.

General Notes:

TWW = Treated Wood Waste
PCB = Polychlorinated Biphenyls
LF = Linear feet   mg = Milligrams
SF = Square feet   ug = Micrograms

[1] Order of Magnitude **_ESTIMATED_** Quantities and Locations **_ARE NOT_** to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documents and site visits must be submitted in writing **_PRIOR_** to bidding.

Table 2 - Hazardous Materials Summary – Black Electric Feed Wrap

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY[1]
There were no PCBs detected in any of the three samples of black electric feed wrap collected.				

Notes to Table 2:

1. See Table 1 for General Notes.

Table 3 - Hazardous Materials Summary – Loose Capacitors at Building 5

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	ESTIMATED QUANTITY[1]
There were no PCBs detected in any of the three samples of loose capacitors collected at Building 5.				

Notes to Table 3:

1. See Table 1 for General Notes.

Table 4 - Hazardous Materials Summary – Wood Power Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Power Poles	Brown w/Black Tar	Throughout Facility	Chromium 9.7 - 24 mg/kg Copper 11 - 140 mg/kg Anthracene 130 mg/kg Benzo(a)anthracene 160 mg/kg Benzo(b)fluoranthrene 130 mg/kg Chrysene 270 mg/kg Fluoranthene 140 - 1,900 mg/kg **Pentachlorophenol 510 - 1,700 mg/kg** Phenanthrene 1,700 mg/kg Pyrene 1,200 mg/kg	195 Poles

Notes to Table 4:

1. See Table 1 for General Notes.

Table 5 - Hazardous Materials Summary – Wood Perimeter Lighting Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Perimeter Lighting Poles	Brown w/Black Tar	Adjacent to Perimeter Fencing Throughout Facility	Chromium 14 - 21 mg/kg Copper 11 - 20 mg/kg Fluoranthene 150 mg/kg **Pentachlorophenol 1,100 – 6,400 mg/kg**	113 Poles

Notes to Table 5:

1. See Table 1 for General Notes.

Table 6 - Hazardous Materials Summary – Wood Security Lighting and Camera Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Security Lighting and Camera Poles	Brown w/Black Tar	Interspersed with Power Poles Throughout Facility	Chromium 1.1 mg/kg Copper 3.1 – 68 mg/kg **Pentachlorophenol 710 mg/kg**	66 Poles
Notes to Table 5: 1. See Table 1 for General Notes.				

Table 7 - Hazardous Materials Summary – Wood Communications Poles

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Comms Poles	Brown w/Black Tar	Adjacent to Buildings 1 and 6	Arsenic 11 mg/kg Chromium 16 mg/kg Copper 4.3 mg/kg Fluoranthene 550 mg/kg Phenanthrene 500 mg/kg Pyrene 360 mg/kg	2 Poles
Notes to Table 5: 1. See Table 1 for General Notes.				

Table 8 - Hazardous Materials Summary – Wood Framing for Electrical Substations

MATERIAL	DESCRIPTION	LOCATION	CONTAMINANT	QUANTITY
Upright Main Support Poles	Brown w/Black Tar	Substations next to Buildings 2 and 3, Vertical Supports for Wooden Structure	Copper 520 mg/kg **Pentachlorophenol 760 mg/kg**	Entire Structures
Cross Members and Connector Planks	Discolored (grey) lumber (mainly 2x4s)	Substations next t Buildings 2 and 3, Horizontal and Diagonal Cross members and Lea Supports	Chromium 1.4 mg/kg Copper 5.6 mg/kg	Entire Structures
Notes to Table 5: 1. See Table 1 for General Notes.				

SITE DESCRIPTION

The site is a portion of the former March Air Reserve Base (ARB), which was utilized for multiple purposes, mainly related to munitions storage and related support structures, during the time that the site was operational as either March Air Force Base (AFB) or March ARB. The far Eastern portions of the site include a Security Post as well as an Office/Barack and Kennels for a K-9 Unit.

Structures associated with the project site generally include munitions bunkers and related support structures and facilities. These are further described under separate cover in the aforementioned Hazardous Materials Testing Report dated 17 January 2022.

This assessment included the testing of loose items and suspect improvements not related to buildings (which had been previously assessed). This included a variety of treated wood poles related to power, communications, lighting and security, as well as pole-mounted transformers, electrical feed wraps and loose capacitors found on the ground in and around Building 5.

METHODOLOGY

Vista performed the hazardous materials investigation, including all field sampling, on 23 February 2022. All site work, visual observations and testing was performed by Vista employee Yvan Schmidt.

The following procedures and testing methods were followed when performing this hazardous materials investigation:

Sampling for PCBs was performed as required by the United States Environmental Protection Agency (USEPA), as outlined in 40 CFR 761. Each sample was collected as follows:

1. For transformer oil sampling, the following testing procedure was utilized:
    a. All work started with electrical safing by Reel Electric, a licensed electrical contractor. Reel tested the lines on both sides of the pole upon which was mounted the subject transformer to be tested.
    b. Reel Electric disconnected all primary and secondary leads to the transformer to be tested.
    c. The subject transformer (of three mounted on each pole with transformers) was opened by disconnecting top fasteners, the lid was removed, and a sample was collected of the dielectric fluid, a mineral oil, within the subject transformer.
    d. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.
    e. The subject transformer's lid was replaced and fasteners re-attached.

2. For electrical feed wire wrap, the following testing procedure was utilized:
    a. Electrical feed wire wrap was tested from the same poles that Reel Electric had already confirmed were de-energized.
    b. Each sample was collected by utilizing rubber-handled hard plastic plyers to remove a bulk sample of the subject black wrap, which was then placed in a Pyrex sample jar.
    c. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

3. For capacitors, the following testing procedure was utilized:
    a. Capacitors were manually collected as intact units (approximately three inches in diameter and six inches long) and placed directly into Ziplock-style sample bags.
    b. The sample container sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

Sampling for treated wood was performed as required by the United States Environmental Protection Agency (USEPA), as outlined in 40 CFR 260-268, to ensure that the subject treated wood wastes were not federal hazardous wastes as defined therein. Each sample was collected as follows:

1. For all types of wood poles and lumber tested, the following testing procedure was utilized:
    a. Stainless steel chisels were utilized to pry samples from the subject pole or piece of lumber. Pried samples were collected directly above a wide mouth Pyrex sample container with Teflon lid, allowing the sample to fall into the sample container.
    b. The Pyrex sample container with Teflon lid was sealed and labelled with a unique ID number, and all pertinent information was logged on the appropriate sampling form with chain-of-custody.

All samples were delivered, under chain-of-custody, to Advanced Technology Laboratories, located at 3275 Walnut Avenue in Signal Hill, California, 90745 (tel: 562.989.4045). Advanced Technology Laboratories is accredited under the California Environmental Laboratory Accreditation Program (Cal/ELAP No. 1838).

Samples collected for PCBs were submitted for analysis in accordance with United States Environmental Protection Agency (USEPA) Method 8082.

Samples for treated wood were submitted for analysis to determine Arsenic, Chromium and Copper content in accordance with USEPA Method 6010B, and to determine potential Creosote components or Pentachlorophenol in accordance with USEPA Method 8270. Two of the samples collected for treated wood waste (Samples TW-03 and TW-09) were subjected to a second analysis, in order to determine if the waste stream associated with those samples was subject to the Resource Conservation and Recovery Act (RCRA; 40 CFR 260-268). These samples were subjected to the TCLP sample preparation, then again analyzed in accordance with USEPA Method 8270.

RESULTS

The results of the various samples collected for PCBs indicated the following:

1. No PCBs were identified within two of the three oil samples collected of the dielectric fluid (mineral oil) within pole-mounted transformers. The third sample of transformer oil collected indicated the presence of one PCB (Aroclor 1260), but at a concentration of 1.5 mg/kg, well below the significant regulatory level of 50 mg/kg. These results are further described in Table 1 in the Executive Summary, above.
2. No PCBs were identified within any of the three bulk samples collected of the black power feed wire wrap found where power lines come down from pole-mounted transformers. These results are further described in Table 2 in the Executive Summary, above.
3. No PCBs were identified within any of the three capacitor samples collected at Building 5. These results are further described in Table 3 in the Executive Summary, above.

The results of the various samples collected for wood treatment components indicated the following:

1. Limited amounts of copper and chromium, along with a number of organic compounds, were identified within the bulk samples collected of the wood power poles throughout the facility. The various organic compounds identified included pentachlorophenol and various polynuclear aromatic compounds indicating the presence of either Creosote or coal tar.
2. Limited amounts of copper and chromium, along with fluoranthene and pentachlorophenol, were identified within the bulk samples collected of the wood perimeter lighting poles found adjacent to the site's perimeter fencing around the facility.
3. Limited amounts of copper and chromium, along with pentachlorophenol, were identified within the bulk samples collected of the wood security lighting and camera poles found interspersed with power poles throughout the facility.
4. Limited amounts of arsenic, copper and chromium, along with three organic compounds were identified within the bulk sample collected of the wood communication support pole located to the South of Building 6. The three organic compounds identified included polynuclear aromatic compounds indicating the presence of either Creosote or coal tar.
5. Copper and pentachlorophenol were identified within the bulk sample collected of the wood pole upright supports located at the electrical substation adjacent to Building 2.
6. Limited amounts of Chromium and Copper were identified within the bulk sample collected of the lumber cross members (generally 2 x 4s) located at the electrical substations adjacent to Buildings 2 and 3.

Individual bulk sampling and analytical results and pertinent laboratory certifications can be found attached to this letter report.

CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations associated with this testing episode are separated into a section for PCBs and a section for Treated Wood Waste, below.

PCBs:

The results of the various bulk samples collected throughout the project site indicated that no PCBs were identified within any of the bulk samples collected of black electrical feed wire wrap found coming down from transformer-mounted power poles throughout the facility nor in any of the samples of loose capacitors found on the ground in and around Building 5.

The results for two of three samples collected of dielectric fluid (mineral oil) in pole-mounted transformers found throughout the facility indicated that no PCBs were identified within the oil samples collected. One of three samples collected of dielectric fluid (mineral oil) in pole-mounted transformers indicated the presence of one type of PCB, Aroclor 1260, at a concentration of 1.5 mg/kg. This is well below the standard of 50 mg/kg set forth in 40 CFR 761.

The dielectric fluid associated with the pole-mounted transformers is not a hazardous waste, as defined by 40 CFR 761. The disposal or recycling facility to which the pole-mounted transformers are to be taken should be notified, in writing, of these sampling results, including the fact that one of three transformers tested indicated the presence of Aroclor 1260 at a concentration of 1.5 mg/kg, for purposes of hazard communication.

In the event that transformer oil is found to have leaked into the soil below, the oil-impacted soil should be assessed for PCB content. No such leakage was observed at the various sampling locations visited on 23 February 2022.

Treated Wood Waste:

The lumber cross members, mostly 2" x 4" and 2" x 6" lumber, associated with the two electrical substations adjacent to Buildings 1 and 2 and East of Building 3 do not appear to have been treated, and may be removed and disposed of as construction debris.

All wood poles found throughout the facility, including all types of wood lighting and power poles, wood communication poles and the poles utilized for the upright portions of the two exterior electrical substations at the project site were found to contain chemical indications of being treated wood waste.

Two of the three samples collected of the perimeter fence lighting poles (Samples TW-3 and TW-9) indicated the presence of Pentachlorophenol at concentrations sufficient to warrant further analysis via the Toxicity Characteristic Leachate Procedure (TCLP) to determine if this potential waste stream is a federal hazardous waste as defined in 40 CFR 260-268 (RCRA), with the RCRA Waste Code D037. The results of both of these samples were well below the RCRA standard for Waste Code D037, and the waste stream is not a federal hazardous waste.

As a result, all wood poles found throughout the facility should be managed in accordance with California's Alternative Management Standards for treated wood waste, which is set forth in the California Health and Safety Code Sections 25230 through 25230.18. Treated wood poles can be

disposed of at landfills that are certified via the local Regional Water Quality Control Board to accept treated wood waste in accordance with the health and safety code sections mentioned above. California Waste Code 614 shall apply to this waste stream (there is no federal waste code).

LIMITATIONS AND EXCLUSIONS

The investigation and sampling performed was limited to accessible hazardous materials and the testing of representative areas as designated by Leighton Consulting, Inc. Subsurface investigations and investigations outside of the project scope areas were not included as part of this investigation.

All material quantities reported herein are rough order of magnitude estimates and should not be used for bidding purposes. All contractors are responsible for accurately determining quantities and locations of materials identified in this report.

Findings, conclusions, recommendations and analytical data offered in this report have been derived from reviewing existing information provided by the client, visual survey of the accessible improvements and the outcome of sampling and analysis of suspected hazardous materials.

If materials having characteristics in common with those identified in this report or if other forms of suspect hazardous materials are discovered during work activities, maintenance personnel and/or contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

If you have any questions concerning the information contained in this report, please contact me on my cell at 714.746.7644.

Respectfully Submitted,
Vista Environmental Consulting
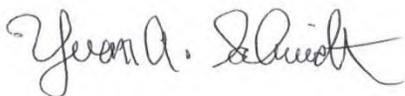
Yvan A. Schmidt
Senior Project Manager

Attachments:

    Appendix A - Laboratory Reports
    Appendix B - Laboratory Certifications

ATTACHMENT A –
LABORATORY ANALYTICAL REPORTS

April 11, 2022

Andrew Schmidt
Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807
Tel: (714) 289-2600
Fax:

Re: ATL Work Order Number :   2200224

         Client Reference :   March ARB / 21 0210 021

Enclosed are the results for sample(s) received on February 23, 2022 by Advanced Technology
Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of
custody in accordance with applicable laboratory certifications. The laboratory results contained
in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions,
please feel free to contact me or Project.Management@atlglobal.com.

Sincerely,

Victoria Michel

fm

Victoria Michel, Project Assistant
Victoria.Michel@atlglobal.com
Authorized to Release on 04/11/22 15:27 on Behalf of

f

Amy Leung
Laboratory Director

The test results in this report relate exclusively to the samples as received by the laboratory, and meet the requirements of the methodology
under which they were reported; any exceptions are noted within the report and/ or case narrative.

The cover letter/ signature page and the case narrative are integral parts of this analytical report; the absence of any portion of the report
renders the report invalid. This report shall not be reproduced except in full, and shall have the express written approval of the laboratory, and
the original client firm to do so
.
The electronic signature on this report is signed by an authorized signatory of Advanced Technology Laboratories, and is intended to be legally
binding as the equivalent of a handwritten signature.

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www.atlglobal.com

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
O-1	2200224-01	Non-Aqueous Liq	2/23/22 8:30	2/23/22 12:48
W-1	2200224-02	Soil	2/23/22 8:35	2/23/22 12:48
TW-1	2200224-03	Soil	2/23/22 8:55	2/23/22 12:48
TW-2	2200224-04	Soil	2/23/22 8:55	2/23/22 12:48
TW-3	2200224-05	Soil	2/23/22 8:55	2/23/22 12:48
O-2	2200224-06	Non-Aqueous Liq	2/23/22 9:25	2/23/22 12:48
W-2	2200224-07	Soil	2/23/22 9:30	2/23/22 12:48
TW-4	2200224-08	Soil	2/23/22 10:10	2/23/22 12:48
TW-5	2200224-09	Soil	2/23/22 10:10	2/23/22 12:48
TW-6	2200224-10	Soil	2/23/22 10:10	2/23/22 12:48
O-3	2200224-11	Non-Aqueous Liq	2/23/22 10:20	2/23/22 12:48
W-3	2200224-12	Soil	2/23/22 10:25	2/23/22 12:48
TW-7	2200224-13	Soil	2/23/22 10:35	2/23/22 12:48
TW-8	2200224-14	Soil	2/23/22 10:35	2/23/22 12:48
TW-9	2200224-15	Soil	2/23/22 10:35	2/23/22 12:48
TW-10	2200224-16	Soil	2/23/22 10:45	2/23/22 12:48
TW-11	2200224-17	Soil	2/23/22 11:10	2/23/22 12:48
TW-12	2200224-18	Soil	2/23/22 11:15	2/23/22 12:48

Certificate of Analysis

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Notes and Definitions

S4   Surrogate was diluted out.

S16   Surrogate recovery is outside the laboratory acceptance limit. Re-extraction is not possible due to insufficient sample.

S12   Surrogate recovery outside in-house established limit but within method default criteria.

S10   Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.

M6   Matrix spike analyte was diluted out.

L5   Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.

L4   Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.

H1   Sample was received past holding time.

D10   Sample required dilution due to dark sample

ND   Analyte is not detected at or above the Practical Quantitation Limit (PQL).   When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)

PQL   Practical Quantitation Limit

MDL   Method Detection Limit

NR   Not Reported

RPD   Relative Percent Difference

CA2   CA-ELAP (CDPH)

OR1   OR-NELAP (OSPHL)

Notes:

(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.

(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

(3) Results are wet unless otherwise specified.

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Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: O-1

Lab ID: 2200224-01

Analyst: KL

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Aroclor 1260	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:14	
Surrogate: Decachlorobiphenyl	*72.6 %*	*0 - 87*		*B2B1190*	*02/24/2022*	*02/24/22 22:14*	
Surrogate: Tetrachloro-m-xylene	*65.3 %*	*0 - 103*		*B2B1190*	*02/24/2022*	*02/24/22 22:14*	

Client Sample ID: W-1

Lab ID: 2200224-02

Analyst: KL

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 20:41	
Surrogate: Decachlorobiphenyl	*36.2 %*	*0 - 87*		*B2B1196*	*02/24/2022*	*03/02/22 20:41*	
Surrogate: Tetrachloro-m-xylene	*34.2 %*	*0 - 103*		*B2B1196*	*02/24/2022*	*03/02/22 20:41*	

Certificate of Analysis

Client Sample ID: TW-1

Lab ID: 2200224-03

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 14:22	
Chromium	**16**	1.0	1	B2B1183	02/24/2022	02/25/22 14:22	
Copper	**22**	2.0	1	B2B1183	02/24/2022	02/25/22 14:22	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10

Certificate of Analysis

Vista Environmental	Project Number : March ARB / 21 0210 021
1054 North Tustin Avenue	Report To : Andrew Schmidt
Anaheim , CA 92807	Reported : 04/11/2022

Client Sample ID: TW-1

Lab ID: 2200224-03

Analyst: KL

Semivolatile Organic Compounds by EPA 8270C

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Fluoranthene	**140000**	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:05	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		*B2B1160*	*02/23/2022*	*02/28/22 21:05*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		*B2B1160*	*02/23/2022*	*02/28/22 21:05*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		*B2B1160*	*02/23/2022*	*02/28/22 21:05*	*S4*
Surrogate: 2-Fluorobiphenyl	*38.0%*	*34 - 106*		*B2B1160*	*02/23/2022*	*02/28/22 21:05*	

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1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-1

Lab ID: 2200224-03

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	*0%*	*16 - 94*		B2B1160	02/23/2022	*02/28/22 21:05*	S4
Surrogate: 4-Terphenyl-d14	*84.0 %*	*31 - 130*		B2B1160	02/23/2022	*02/28/22 21:05*	
Surrogate: Nitrobenzene-d5	*0%*	*23 - 102*		B2B1160	02/23/2022	*02/28/22 21:05*	S4
Surrogate: Phenol-d6	*0%*	*14 - 104*		B2B1160	02/23/2022	*02/28/22 21:05*	S4

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Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-2
Lab ID: 2200224-04

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:25	
Chromium	1.1	1.0	1	B2B1183	02/24/2022	02/25/22 15:25	
Copper	64	2.0	1	B2B1183	02/24/2022	02/25/22 15:25	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-2
Lab ID: 2200224-04

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pentachlorophenol	**710000**	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:32	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*		*23 - 102*	*B2B1160*	*02/23/2022*	*02/28/22 21:32*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*		*3 - 138*	*B2B1160*	*02/23/2022*	*02/28/22 21:32*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*		*18 - 105*	*B2B1160*	*02/23/2022*	*02/28/22 21:32*	*S4*
Surrogate: 2-Fluorobiphenyl	*30.0%*		*34 - 106*	*B2B1160*	*02/23/2022*	*02/28/22 21:32*	*S4*

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1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-2
Lab ID: 2200224-04

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 21:32	S4
Surrogate: 4-Terphenyl-d14	80.0%	31 - 130		B2B1160	02/23/2022	02/28/22 21:32	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 21:32	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 21:32	S4

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Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-3
Lab ID: 2200224-05

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:28	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:28	
Copper	**21**	2.0	1	B2B1183	02/24/2022	02/25/22 15:28	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4,6-Dinitro-2-methyphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-3
Lab ID: 2200224-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pentachlorophenol	**6400000**	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Phenanthrene	**150000**	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 21:59	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		B2B1160	02/23/2022	*02/28/22 21:59*	S4
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		B2B1160	02/23/2022	*02/28/22 21:59*	S4
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		B2B1160	02/23/2022	*02/28/22 21:59*	S4

Certificate of Analysis

Vista Environmental	Project Number : March ARB / 21 0210 021
1054 North Tustin Avenue	Report To : Andrew Schmidt
Anaheim , CA 92807	Reported : 04/11/2022

Client Sample ID: TW-3

Lab ID: 2200224-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorobiphenyl	38.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 21:59	
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 21:59	S4
Surrogate: 4-Terphenyl-d14	63.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 21:59	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 21:59	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 21:59	S4

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,2-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,3-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
1,4-Dichlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4,5-Trichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4,6-Trichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dichlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dimethylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dinitrophenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,4-Dinitrotoluene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2,6-Dinitrotoluene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Chloronaphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Chlorophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Methylnaphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Nitroaniline	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
2-Nitrophenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3,3´-Dichlorobenzidine	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3-Nitroaniline	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4,6-Dinitro-2-methylphenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Bromophenyl-phenylether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chloro-3-methylphenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chloroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Chlorophenyl-phenylether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
3/4-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Methylphenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Nitroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
4-Nitrophenol	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Acenaphthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-3
Lab ID: 2200224-05

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(a)anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(a)pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(b)fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(g,h,i)perylene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzo(k)fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzoic acid	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Benzyl alcohol	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-chloroethoxy)methane	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-Chloroethyl)ether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-chloroisopropyl)ether	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
bis(2-ethylhexyl)phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Butylbenzylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Chrysene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Di-n-butylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Di-n-octylphthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dibenz(a,h)anthracene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dibenzofuran	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Diethyl phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Dimethyl phthalate	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Fluoranthene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Fluorene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorobutadiene	ND	0.05	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachlorocyclopentadiene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Hexachloroethane	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Indeno(1,2,3-cd)pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Isophorone	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
N-Nitroso-di-n propylamine	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
N-Nitrosodiphenylamine	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Naphthalene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Nitrobenzene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pentachlorophenol	**0.66**	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Phenanthrene	**0.01**	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Phenol	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pyrene	ND	0.03	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Pyridine	ND	0.13	1	B2D1163	04/05/2022	04/05/22 19:46	H1
Surrogate: 1,2-Dichlorobenzene-d4	*15.8 %*	*21 - 92*		*B2D1163*	*04/05/2022*	*04/05/22 19:46*	*S10*
Surrogate: 2,4,6-Tribromophenol	*19.3 %*	*24 - 113*		*B2D1163*	*04/05/2022*	*04/05/22 19:46*	*S10*

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-3
Lab ID: 2200224-05

Analyst: EB

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Chlorophenol-d4	13.5 %	14 - 86		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: 2-Fluorobiphenyl	17.0 %	28 - 105		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: 2-Fluorophenol	8.91 %	0 - 59		B2D1163	04/05/2022	04/05/22 19:46	
Surrogate: 4-Terphenyl-d14	17.7 %	32 - 116		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: Nitrobenzene-d5	18.3 %	25 - 101		B2D1163	04/05/2022	04/05/22 19:46	S10
Surrogate: Phenol-d6	8.69 %	0 - 48		B2D1163	04/05/2022	04/05/22 19:46	

Client Sample ID: O-2
Lab ID: 2200224-06

Analyst: KL

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Aroclor 1260	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:33	
Surrogate: Decachlorobiphenyl	71.6 %	0 - 87		B2B1190	02/24/2022	02/24/22 22:33	
Surrogate: Tetrachloro-m-xylene	67.2 %	0 - 103		B2B1190	02/24/2022	02/24/22 22:33	

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Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: W-2

Lab ID: 2200224-07

Analyst: KL

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 21:00	
Surrogate: Decachlorobiphenyl	*31.3 %*	*0 - 87*		*B2B1196*	*02/24/2022*	*03/02/22 21:00*	
Surrogate: Tetrachloro-m-xylene	*28.6 %*	*0 - 103*		*B2B1196*	*02/24/2022*	*03/02/22 21:00*	

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Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-4
Lab ID: 2200224-08

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:30	
Chromium	9.7	1.0	1	B2B1183	02/24/2022	02/25/22 15:30	
Copper	11	2.0	1	B2B1183	02/24/2022	02/25/22 15:30	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Anthracene	130000	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-4

Lab ID: 2200224-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	**160000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(b)fluoranthene	**130000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Chrysene	**270000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Fluoranthene	**1900000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pentachlorophenol	**1700000**	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Phenanthrene	**1700000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pyrene	**1200000**	99000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:26	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		B2B1160	02/23/2022	02/28/22 22:26	S4
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		B2B1160	02/23/2022	02/28/22 22:26	S4
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		B2B1160	02/23/2022	02/28/22 22:26	S4

Certificate of Analysis

Vista Environmental	Project Number : March ARB / 21 0210 021
1054 North Tustin Avenue	Report To : Andrew Schmidt
Anaheim , CA 92807	Reported : 04/11/2022

Client Sample ID: TW-4

Lab ID: 2200224-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorobiphenyl	58.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 22:26	
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 22:26	S4
Surrogate: 4-Terphenyl-d14	93.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 22:26	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 22:26	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 22:26	S4

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Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-5
Lab ID: 2200224-09

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:32	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:32	
Copper	**3.1**	2.0	1	B2B1183	02/24/2022	02/25/22 15:32	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-5
Lab ID: 2200224-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 22:52	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		B2B1160	02/23/2022	02/28/22 22:52	S4
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*				02/28/22 22:52	S4
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		B2B1160		02/28/22 22:52	S4
Surrogate: 2-Fluorobiphenyl	*29.0%*	*34 - 106*		B2B1160	02/23/2022	02/28/22 22:52	S4

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-5

Lab ID: 2200224-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 22:52	S4
Surrogate: 4-Terphenyl-d14	60.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 22:52	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 22:52	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 22:52	S4

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-6
Lab ID: 2200224-10

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:34	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:34	
Copper	**14**	2.0	1	B2B1183	02/24/2022	02/25/22 15:34	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-6
Lab ID: 2200224-10

Analyst: KL

Semivolatile Organic Compounds by EPA 8270C

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pentachlorophenol	**1100000**	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:18	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		*B2B1160*	*02/23/2022*	*02/28/22 23:18*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		*B2B1160*	*02/23/2022*	*02/28/22 23:18*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		*B2B1160*	*02/23/2022*	*02/28/22 23:18*	*S4*
Surrogate: 2-Fluorobiphenyl	*9.00 %*	*34 - 106*		*B2B1160*	*02/23/2022*	*02/28/22 23:18*	*S4*

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-6
Lab ID: 2200224-10

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: 4-Terphenyl-d14	88.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 23:18	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 23:18	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 23:18	S4

Client Sample ID: O-3
Lab ID: 2200224-11

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1221	ND	2.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1232	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1242	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1248	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1254	ND	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Aroclor 1260	**1.5**	1.0	1	B2B1190	02/24/2022	02/24/22 22:52	
Surrogate: Decachlorobiphenyl	77.7 %	0 - 87		B2B1190	02/24/2022	02/24/22 22:52	
Surrogate: Tetrachloro-m-xylene	65.9 %	0 - 103		B2B1190	02/24/2022	02/24/22 22:52	

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Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Analyst: KL

Client Sample ID: W-3

Lab ID: 2200224-12

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1221	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1232	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1242	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1248	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1254	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Aroclor 1260	ND	240	1	B2B1196	02/24/2022	03/02/22 21:19	
Surrogate: Decachlorobiphenyl	*35.7 %*	*0 - 87*		*B2B1196*	*02/24/2022*	*03/02/22 21:19*	
Surrogate: Tetrachloro-m-xylene	*32.6 %*	*0 - 103*		*B2B1196*	*02/24/2022*	*03/02/22 21:19*	

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-7
Lab ID: 2200224-13

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:36	
Chromium	24	1.0	1	B2B1183	02/24/2022	02/25/22 15:36	
Copper	140	2.0	1	B2B1183	02/24/2022	02/25/22 15:36	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-7
Lab ID: 2200224-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)		PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(a)pyrene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(b)fluoranthene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(g,h,i)perylene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzo(k)fluoranthene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzoic acid	ND		500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Benzyl alcohol	ND		200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-chloroethoxy)methane	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-Chloroethyl)ether	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-chloroisopropyl)ether	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
bis(2-ethylhexyl)phthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Butylbenzylphthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Chrysene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Di-n-butylphthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Di-n-octylphthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dibenz(a,h)anthracene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dibenzofuran	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Diethyl phthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Dimethyl phthalate	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Fluoranthene	**320000**		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Fluorene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorobenzene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorobutadiene	ND		200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachlorocyclopentadiene	ND		200000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Hexachloroethane	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Indeno(1,2,3-cd)pyrene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Isophorone	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
N-Nitroso-di-n propylamine	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
N-Nitrosodiphenylamine	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Naphthalene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Nitrobenzene	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pentachlorophenol	**510000**		500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Phenanthrene	**160000**		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Phenol	ND		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pyrene	**150000**		99000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Pyridine	ND		500000	100	B2B1160	02/23/2022	02/28/22 23:45	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*		*23 - 102*		*B2B1160*	*02/23/2022*	*02/28/22 23:45*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*		*3 - 138*		*B2B1160*	*02/23/2022*	*02/28/22 23:45*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*		*18 - 105*		*B2B1160*	*02/23/2022*	*02/28/22 23:45*	*S4*

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-7

Lab ID: 2200224-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorobiphenyl	38.0 %	34 - 106		B2B1160	02/23/2022	02/28/22 23:45	
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	02/28/22 23:45	S4
Surrogate: 4-Terphenyl-d14	79.0 %	31 - 130		B2B1160	02/23/2022	02/28/22 23:45	
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	02/28/22 23:45	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	02/28/22 23:45	S4

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-8
Lab ID: 2200224-14

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:38	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:38	
Copper	**4.8**	2.0	1	B2B1183	02/24/2022	02/25/22 15:38	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4,6-Dinitro-2-methyphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-8
Lab ID: 2200224-14

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:11	D10
Surrogate: 1,2-Dichlorobenzene-d4	*33.0 %*	*23 - 102*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*
Surrogate: 2-Fluorobiphenyl	*12.0 %*	*34 - 106*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-8

Lab ID: 2200224-14

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	*0%*	*16 - 94*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*
Surrogate: 4-Terphenyl-d14	*74.0 %*	*31 - 130*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	
Surrogate: Nitrobenzene-d5	*0%*	*23 - 102*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*
Surrogate: Phenol-d6	*0%*	*14 - 104*		*B2B1160*	*02/23/2022*	*03/01/22 00:11*	*S4*

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:40	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:40	
Copper	**20**	2.0	1	B2B1183	02/24/2022	02/25/22 15:40	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pentachlorophenol	**5200000**	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 00:37	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		*B2B1160*	*02/23/2022*	*03/01/22 00:37*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		*B2B1160*	*02/23/2022*	*03/01/22 00:37*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		*B2B1160*	*02/23/2022*	*03/01/22 00:37*	*S4*
Surrogate: 2-Fluorobiphenyl	*20.0%*	*34 - 106*		*B2B1160*	*02/23/2022*	*03/01/22 00:37*	*S4*

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	*0%*	*16 - 94*		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: 4-Terphenyl-d14	*54.0 %*	*31 - 130*		B2B1160	02/23/2022	03/01/22 00:37	
Surrogate: Nitrobenzene-d5	*0%*	*23 - 102*		B2B1160	02/23/2022	03/01/22 00:37	S4
Surrogate: Phenol-d6	*0%*	*14 - 104*		B2B1160	02/23/2022	03/01/22 00:37	S4

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,2-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,3-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
1,4-Dichlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4,5-Trichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4,6-Trichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dichlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dimethylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dinitrophenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,4-Dinitrotoluene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2,6-Dinitrotoluene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Chloronaphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Chlorophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Methylnaphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Nitroaniline	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
2-Nitrophenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3,3´-Dichlorobenzidine	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3-Nitroaniline	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4,6-Dinitro-2-methylphenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Bromophenyl-phenylether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chloro-3-methylphenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chloroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Chlorophenyl-phenylether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
3/4-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Methylphenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Nitroaniline	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
4-Nitrophenol	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Acenaphthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Acenaphthylene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1

Certificate of Analysis

Vista Environmental	Project Number : March ARB / 21 0210 021
1054 North Tustin Avenue	Report To : Andrew Schmidt
Anaheim , CA 92807	Reported : 04/11/2022

Client Sample ID: TW-9
Lab ID: 2200224-15

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(a)anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(a)pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(b)fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(g,h,i)perylene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzo(k)fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzoic acid	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Benzyl alcohol	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-chloroethoxy)methane	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-Chloroethyl)ether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-chloroisopropyl)ether	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
bis(2-ethylhexyl)phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Butylbenzylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Chrysene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Di-n-butylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Di-n-octylphthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dibenz(a,h)anthracene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dibenzofuran	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Diethyl phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Dimethyl phthalate	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Fluoranthene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Fluorene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorobutadiene	ND	0.05	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachlorocyclopentadiene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Hexachloroethane	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Indeno(1,2,3-cd)pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Isophorone	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
N-Nitroso-di-n propylamine	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
N-Nitrosodiphenylamine	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Naphthalene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Nitrobenzene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pentachlorophenol	**1.7**	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Phenanthrene	**0.03**	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Phenol	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pyrene	ND	0.02	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Pyridine	ND	0.12	1	B2D1163	04/05/2022	04/05/22 20:13	H1
Surrogate: 1,2-Dichlorobenzene-d4	*50.8 %*	*21 - 92*		B2D1163	04/05/2022	*04/05/22 20:13*	
Surrogate: 2,4,6-Tribromophenol	*55.5 %*	*24 - 113*		B2D1163	04/05/2022	*04/05/22 20:13*	

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-9

Lab ID: 2200224-15

TCLP Semivolatile Organic Compounds by EPA 8270C

Analyst: EB

Analyte	Result	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Chlorophenol-d4	41.0 %	14 - 86		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 2-Fluorobiphenyl	53.7 %	28 - 105		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 2-Fluorophenol	27.2 %	0 - 59		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: 4-Terphenyl-d14	55.8 %	32 - 116		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: Nitrobenzene-d5	59.8 %	25 - 101		B2D1163	04/05/2022	04/05/22 20:13	
Surrogate: Phenol-d6	26.5 %	0 - 48		B2D1163	04/05/2022	04/05/22 20:13	

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-10
Lab ID: 2200224-16

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	11	1.0	1	B2B1183	02/24/2022	02/25/22 15:42	
Chromium	16	1.0	1	B2B1183	02/24/2022	02/25/22 15:42	
Copper	4.3	2.0	1	B2B1183	02/24/2022	02/25/22 15:42	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-10
Lab ID: 2200224-16

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Fluoranthene	**550000**	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pentachlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Phenanthrene	**500000**	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pyrene	**360000**	99000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:03	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		B2B1160	02/23/2022	*03/01/22 01:03*	S4
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		B2B1160	02/23/2022	*03/01/22 01:03*	S4
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		B2B1160	02/23/2022	*03/01/22 01:03*	S4

Certificate of Analysis

Vista Environmental

Project Number : March ARB / 21 0210 021

1054 North Tustin Avenue

Report To : Andrew Schmidt

Anaheim , CA 92807

Reported : 04/11/2022

Client Sample ID: TW-10

Lab ID: 2200224-16

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorobiphenyl	0%	34 - 106		B2B1160	02/23/2022	03/01/22 01:03	S4
Surrogate: 2-Fluorophenol	0%	16 - 94		B2B1160	02/23/2022	03/01/22 01:03	S4
Surrogate: 4-Terphenyl-d14	12.0 %	31 - 130		B2B1160	02/23/2022	03/01/22 01:03	S4
Surrogate: Nitrobenzene-d5	0%	23 - 102		B2B1160	02/23/2022	03/01/22 01:03	S4
Surrogate: Phenol-d6	0%	14 - 104		B2B1160	02/23/2022	03/01/22 01:03	S4

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Client Sample ID: TW-11
Lab ID: 2200224-17

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:44	
Chromium	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:44	
Copper	**52**	2.0	1	B2B1183	02/24/2022	02/25/22 15:44	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,2-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,3-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
1,4-Dichlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4,5-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4,6-Trichlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dichlorophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dimethylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dinitrophenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,4-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2,6-Dinitrotoluene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Chloronaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Chlorophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Methylnaphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
2-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
3,3´-Dichlorobenzidine	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
3-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4,6-Dinitro-2-methylphenol	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Bromophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chloro-3-methylphenol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chloroaniline	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Chlorophenyl-phenylether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Methylphenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Nitroaniline	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
4-Nitrophenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Acenaphthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Acenaphthylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzidine (M)	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-11
Lab ID: 2200224-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(a)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(b)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(g,h,i)perylene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzo(k)fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzoic acid	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Benzyl alcohol	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-chloroethoxy)methane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-Chloroethyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-chloroisopropyl)ether	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
bis(2-ethylhexyl)phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Butylbenzylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Chrysene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Di-n-butylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Di-n-octylphthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dibenz(a,h)anthracene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dibenzofuran	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Diethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Dimethyl phthalate	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Fluoranthene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Fluorene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorobutadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachlorocyclopentadiene	ND	200000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Hexachloroethane	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Indeno(1,2,3-cd)pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Isophorone	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
N-Nitroso-di-n propylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
N-Nitrosodiphenylamine	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Naphthalene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Nitrobenzene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pentachlorophenol	**760000**	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Phenanthrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Phenol	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pyrene	ND	99000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Pyridine	ND	500000	100	B2B1160	02/23/2022	03/01/22 01:29	D10
Surrogate: 1,2-Dichlorobenzene-d4	*0%*	*23 - 102*		*B2B1160*	*02/23/2022*	*03/01/22 01:29*	*S4*
Surrogate: 2,4,6-Tribromophenol	*0%*	*3 - 138*		*B2B1160*	*02/23/2022*	*03/01/22 01:29*	*S4*
Surrogate: 2-Chlorophenol-d4	*0%*	*18 - 105*		*B2B1160*	*02/23/2022*	*03/01/22 01:29*	*S4*
Surrogate: 2-Fluorobiphenyl	*25.0%*	*34 - 106*		*B2B1160*	*02/23/2022*	*03/01/22 01:29*	*S4*

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-11

Lab ID: 2200224-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	*0%*	*16 - 94*		B2B1160	02/23/2022	03/01/22 01:29	S4
Surrogate: 4-Terphenyl-d14	*63.0 %*	*31 - 130*		B2B1160	02/23/2022	03/01/22 01:29	
Surrogate: Nitrobenzene-d5	*0%*	*23 - 102*		B2B1160	02/23/2022	03/01/22 01:29	S4
Surrogate: Phenol-d6	*0%*	*14 - 104*		B2B1160	02/23/2022	03/01/22 01:29	S4

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-12

Lab ID: 2200224-18

Total Metals by ICP-AES EPA 6010B

Analyst: WT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B2B1183	02/24/2022	02/25/22 15:50	
Chromium	1.4	1.0	1	B2B1183	02/24/2022	02/25/22 15:50	
Copper	5.6	2.0	1	B2B1183	02/24/2022	02/25/22 15:50	

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,2-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,3-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
1,4-Dichlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4,5-Trichlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4,6-Trichlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dichlorophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dimethylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dinitrophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,4-Dinitrotoluene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2,6-Dinitrotoluene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Chloronaphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Chlorophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Methylnaphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Methylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
2-Nitrophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
3,3´-Dichlorobenzidine	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
3-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4,6-Dinitro-2-methylphenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Bromophenyl-phenylether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chloro-3-methylphenol	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chloroaniline	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Chlorophenyl-phenylether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Methylphenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Nitroaniline	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
4-Nitrophenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Acenaphthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Acenaphthylene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzidine (M)	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10

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Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Client Sample ID: TW-12
Lab ID: 2200224-18

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzo(a)anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(a)pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(b)fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(g,h,i)perylene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzo(k)fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzoic acid	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Benzyl alcohol	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-chloroethoxy)methane	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-Chloroethyl)ether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-chloroisopropyl)ether	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
bis(2-ethylhexyl)phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Butylbenzylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Chrysene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Di-n-butylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Di-n-octylphthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dibenz(a,h)anthracene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dibenzofuran	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Diethyl phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Dimethyl phthalate	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Fluoranthene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Fluorene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorobutadiene	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachlorocyclopentadiene	ND	2000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Hexachloroethane	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Indeno(1,2,3-cd)pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Isophorone	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
N-Nitroso-di-n propylamine	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
N-Nitrosodiphenylamine	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Naphthalene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Nitrobenzene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pentachlorophenol	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Phenanthrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Phenol	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pyrene	ND	990	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Pyridine	ND	5000	1	B2B1160	02/23/2022	03/01/22 01:55	D10
Surrogate: 1,2-Dichlorobenzene-d4	*53.6 %*	*23 - 102*		*B2B1160*	*02/23/2022*	*03/01/22 01:55*	
Surrogate: 2,4,6-Tribromophenol	*89.5 %*	*3 - 138*		*B2B1160*	*02/23/2022*	*03/01/22 01:55*	
Surrogate: 2-Chlorophenol-d4	*52.2 %*	*18 - 105*		*B2B1160*	*02/23/2022*	*03/01/22 01:55*	
Surrogate: 2-Fluorobiphenyl	*57.2 %*	*34 - 106*		*B2B1160*	*02/23/2022*	*03/01/22 01:55*	

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Report To : Andrew Schmidt

Reported : 04/11/2022

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Client Sample ID: TW-12

Lab ID: 2200224-18

Semivolatile Organic Compounds by EPA 8270C

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 2-Fluorophenol	46.9 %	16 - 94		B2B1160	02/23/2022	03/01/22 01:55	
Surrogate: 4-Terphenyl-d14	88.4 %	31 - 130		B2B1160	02/23/2022	03/01/22 01:55	
Surrogate: Nitrobenzene-d5	52.6 %	23 - 102		B2B1160	02/23/2022	03/01/22 01:55	
Surrogate: Phenol-d6	46.7 %	14 - 104		B2B1160	02/23/2022	03/01/22 01:55	

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1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B1183 - EPA 3050B_S										
Blank (B2B1183-BLK1)						Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	ND	1.0	0.12							
Chromium	ND	1.0	0.26							
Copper	ND	2.0	0.19							
LCS (B2B1183-BS1)						Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	24.0739	1.0	0.12	25.0000		96.3	80 - 120			
Chromium	24.6271	1.0	0.26	25.0000		98.5	80 - 120			
Copper	24.7303	2.0	0.19	25.0000		98.9	80 - 120			
Matrix Spike (B2B1183-MS1)			Source: 2200224-03			Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	22.0730	1.0	0.12	25.0000	0.265816	87.2	55 - 117			
Chromium	38.8938	1.0	0.26	25.0000	15.7886	92.4	42 - 145			
Copper	45.8639	2.0	0.19	25.0000	21.7010	96.7	37 - 163			
Matrix Spike Dup (B2B1183-MSD1)			Source: 2200224-03			Prepared: 2/24/2022 Analyzed: 2/25/2022				
Arsenic	21.9565	1.0	0.12	25.0000	0.265816	86.8	55 - 117	0.529	20	
Chromium	38.8872	1.0	0.26	25.0000	15.7886	92.4	42 - 145	0.0169	20	
Copper	45.9494	2.0	0.19	25.0000	21.7010	97.0	37 - 163	0.186	20	

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Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B1190 - GCSEMI_PCB/PEST_NAL										
Blank (B2B1190-BLK1)						Prepared: 2/24/2022 Analyzed: 2/24/2022				
Aroclor 1016	ND	1.0	0.12							
Aroclor 1221	ND	2.0	0.12							
Aroclor 1232	ND	1.0	0.12							
Aroclor 1242	ND	1.0	0.12							
Aroclor 1248	ND	1.0	0.12							
Aroclor 1254	ND	1.0	0.12							
Aroclor 1260	ND	1.0	0.12							
Surrogate: Decachlorobiphenyl	*0.9830*			*1.00000*		*98.3*	*0 - 87*			S12
Surrogate: Tetrachloro-m-xylene	*0.9984*			*1.00000*		*99.8*	*0 - 103*			
LCS (B2B1190-BS1)						Prepared: 2/24/2022 Analyzed: 2/24/2022				
Aroclor 1016	8.73918	1.0	0.12	10.0000		87.4	11 - 108			
Aroclor 1260	10.1606	1.0	0.12	10.0000		102	19 - 112			
Surrogate: Decachlorobiphenyl	*0.9804*			*1.00000*		*98.0*	*0 - 87*			S12
Surrogate: Tetrachloro-m-xylene	*0.9672*			*1.00000*		*96.7*	*0 - 103*			
Matrix Spike (B2B1190-MS1)					Source: 2200224-01	Prepared: 2/24/2022 Analyzed: 2/24/2022				
Aroclor 1016	2.91776	1.0	0.12	10.0000	ND	29.2	0 - 135			
Aroclor 1260	9.23187	1.0	0.12	10.0000	ND	92.3	0 - 127			
Surrogate: Decachlorobiphenyl	*0.7835*			*1.00000*		*78.4*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*0.02673*			*1.00000*		*2.67*	*0 - 103*			
Matrix Spike Dup (B2B1190-MSD1)					Source: 2200224-01	Prepared: 2/24/2022 Analyzed: 2/24/2022				
Aroclor 1016	2.92991	1.0	0.12	10.0000	ND	29.3	0 - 135	0.416	20	
Aroclor 1260	9.20703	1.0	0.12	10.0000	ND	92.1	0 - 127	0.269	20	
Surrogate: Decachlorobiphenyl	*0.7878*			*1.00000*		*78.8*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*0.03591*			*1.00000*		*3.59*	*0 - 103*			

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1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021
Report To : Andrew Schmidt
Reported : 04/11/2022

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B1196 - GCSEMI_PCB/PEST_S										
Blank (B2B1196-BLK1)						Prepared: 2/24/2022 Analyzed: 3/2/2022				
Aroclor 1016	ND	16	1.9							
Aroclor 1221	ND	16	1.9							
Aroclor 1232	ND	16	1.9							
Aroclor 1242	ND	16	1.9							
Aroclor 1248	ND	16	1.9							
Aroclor 1254	ND	16	1.9							
Aroclor 1260	ND	16	1.9							
Surrogate: Decachlorobiphenyl	*9.532*			*16.6667*		*57.2*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*9.072*			*16.6667*		*54.4*	*0 - 103*			
LCS (B2B1196-BS1)						Prepared: 2/24/2022 Analyzed: 3/2/2022				
Aroclor 1016	89.5262	16	1.9	166.667		53.7	11 - 108			
Aroclor 1260	98.6898	16	1.9	166.667		59.2	19 - 112			
Surrogate: Decachlorobiphenyl	*9.613*			*16.6667*		*57.7*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*9.419*			*16.6667*		*56.5*	*0 - 103*			
Matrix Spike (B2B1196-MS1)			Source: 2200224-02			Prepared: 2/24/2022 Analyzed: 3/2/2022				
Aroclor 1016	1192.28	240	29	2500.00	ND	47.7	0 - 135			
Aroclor 1260	860.268	240	29	2500.00	ND	34.4	0 - 127			
Surrogate: Decachlorobiphenyl	*90.15*			*250.000*		*36.1*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*76.27*			*250.000*		*30.5*	*0 - 103*			
Matrix Spike Dup (B2B1196-MSD1)			Source: 2200224-02			Prepared: 2/24/2022 Analyzed: 3/2/2022				
Aroclor 1016	1045.38	240	29	2500.00	ND	41.8	0 - 135	13.1	20	
Aroclor 1260	742.158	240	29	2500.00	ND	29.7	0 - 127	14.7	20	
Surrogate: Decachlorobiphenyl	*79.58*			*250.000*		*31.8*	*0 - 87*			
Surrogate: Tetrachloro-m-xylene	*66.19*			*250.000*		*26.5*	*0 - 103*			

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Semivolatile Organic Compounds by EPA 8270C - Quality Control

Batch B2B1160 - MSSEMI_NAL

Blank (B2B1160-BLK1)   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level (ug/kg)	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	ND	160	25							
1,2-Dichlorobenzene	ND	160	13							
1,3-Dichlorobenzene	ND	160	14							
1,4-Dichlorobenzene	ND	160	13							
2,4,5-Trichlorophenol	ND	160	15							
2,4,6-Trichlorophenol	ND	160	17							
2,4-Dichlorophenol	ND	820	17							
2,4-Dimethylphenol	ND	160	13							
2,4-Dinitrophenol	ND	820	43							
2,4-Dinitrotoluene	ND	160	17							
2,6-Dinitrotoluene	ND	160	24							
2-Chloronaphthalene	ND	160	14							
2-Chlorophenol	ND	160	15							
2-Methylnaphthalene	ND	160	14							
2-Methylphenol	ND	160	18							
2-Nitroaniline	ND	820	21							
2-Nitrophenol	ND	160	22							
3,3´-Dichlorobenzidine	ND	330	140							
3-Nitroaniline	ND	820	24							
4,6-Dinitro-2-methyphenol	ND	820	21							
4-Bromophenyl-phenylether	ND	160	32							
4-Chloro-3-methylphenol	ND	330	36							
4-Chloroaniline	ND	330	26							
4-Chlorophenyl-phenylether	ND	160	17							
4-Methylphenol	ND	160	28							
4-Nitroaniline	ND	820	19							
4-Nitrophenol	ND	160	32							
Acenaphthene	ND	160	21							
Acenaphthylene	ND	160	31							
Anthracene	ND	160	26							
Benzidine (M)	ND	820	710							
Benzo(a)anthracene	ND	160	22							
Benzo(a)pyrene	ND	160	32							
Benzo(b)fluoranthene	ND	160	32							
Benzo(g,h,i)perylene	ND	160	40							
Benzo(k)fluoranthene	ND	160	16							
Benzoic acid	ND	820	450							
Benzyl alcohol	ND	330	16							
bis(2-chloroethoxy)methane	ND	160	32							
bis(2-Chloroethyl)ether	ND	160	33							
bis(2-chloroisopropyl)ether	ND	160	38							
bis(2-ethylhexyl)phthalate	ND	160	31							
Butylbenzylphthalate	ND	160	21							
Chrysene	ND	160	42							
Di-n-butylphthalate	ND	160	25							

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2B1160 - MSSEMI_NAL (continued)										
Blank (B2B1160-BLK1) - Continued										
Di-n-octylphthalate	ND	160	31							
Dibenz(a,h)anthracene	ND	160	22							
Dibenzofuran	ND	160	29							
Diethyl phthalate	ND	160	29							
Dimethyl phthalate	ND	160	20							
Fluoranthene	ND	160	30							
Fluorene	ND	160	53							
Hexachlorobenzene	ND	160	27							
Hexachlorobutadiene	ND	330	26							
Hexachlorocyclopentadiene	ND	330	35							
Hexachloroethane	ND	160	47							
Indeno(1,2,3-cd)pyrene	ND	160	38							
Isophorone	ND	160	42							
N-Nitroso-di-n propylamine	ND	160	30							
N-Nitrosodiphenylamine	ND	160	16							
Naphthalene	ND	160	28							
Nitrobenzene	ND	160	28							
Pentachlorophenol	ND	820	25							
Phenanthrene	ND	160	33							
Phenol	ND	160	17							
Pyrene	ND	160	36							
Pyridine	ND	820	130							
Surrogate: 1,2-Dichlorobenzene-d4	*2151*			*3333.33*		*64.5*	*23 - 102*			
Surrogate: 2,4,6-Tribromophenol	*3957*			*5000.00*		*79.1*	*3 - 138*			
Surrogate: 2-Chlorophenol-d4	*3248*			*5000.00*		*65.0*	*18 - 105*			
Surrogate: 2-Fluorobiphenyl	*2365*			*3333.33*		*71.0*	*34 - 106*			
Surrogate: 2-Fluorophenol	*2890*			*5000.00*		*57.8*	*16 - 94*			
Surrogate: 4-Terphenyl-d14	*3367*			*3333.33*		*101*	*31 - 130*			
Surrogate: Nitrobenzene-d5	*1703*			*3333.33*		*51.1*	*23 - 102*			
Surrogate: Phenol-d6	*3102*			*5000.00*		*62.0*	*14 - 104*			
Prepared: 2/23/2022 Analyzed: 2/28/2022										
Blank (B2B1160-BLK2)										
1,2,4-Trichlorobenzene	ND	160	25							
1,2-Dichlorobenzene	ND	160	13							
1,3-Dichlorobenzene	ND	160	14							
1,4-Dichlorobenzene	ND	160	13							
2,4,5-Trichlorophenol	ND	160	15							
2,4,6-Trichlorophenol	ND	160	17							
2,4-Dichlorophenol	ND	820	17							
2,4-Dimethylphenol	ND	160	13							
2,4-Dinitrophenol	ND	820	43							
2,4-Dinitrotoluene	ND	160	17							
2,6-Dinitrotoluene	ND	160	24							
2-Chloronaphthalene	ND	160	14							
2-Chlorophenol	ND	160	15							
Prepared: 2/23/2022 Analyzed: 2/28/2022										

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Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

Blank (B2B1160-BLK2) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	ND	160	14							
2-Methylphenol	ND	160	18							
2-Nitroaniline	ND	820	21							
2-Nitrophenol	ND	160	22							
3,3'-Dichlorobenzidine	ND	330	140							
3-Nitroaniline	ND	820	24							
4,6-Dinitro-2-methylphenol	ND	820	21							
4-Bromophenyl-phenylether	ND	160	32							
4-Chloro-3-methylphenol	ND	330	36							
4-Chloroaniline	ND	330	26							
4-Chlorophenyl-phenylether	ND	160	17							
4-Methylphenol	ND	160	28							
4-Nitroaniline	ND	820	19							
4-Nitrophenol	ND	160	32							
Acenaphthene	ND	160	21							
Acenaphthylene	ND	160	31							
Anthracene	ND	160	26							
Benzidine (M)	ND	820	710							
Benzo(a)anthracene	ND	160	22							
Benzo(a)pyrene	ND	160	32							
Benzo(b)fluoranthene	ND	160	32							
Benzo(g,h,i)perylene	ND	160	40							
Benzo(k)fluoranthene	ND	160	16							
Benzoic acid	ND	820	450							
Benzyl alcohol	ND	330	16							
bis(2-chloroethoxy)methane	ND	160	32							
bis(2-Chloroethyl)ether	ND	160	33							
bis(2-chloroisopropyl)ether	ND	160	38							
bis(2-ethylhexyl)phthalate	ND	160	31							
Butylbenzylphthalate	ND	160	21							
Chrysene	ND	160	42							
Di-n-butylphthalate	ND	160	25							
Di-n-octylphthalate	ND	160	31							
Dibenz(a,h)anthracene	ND	160	22							
Dibenzofuran	ND	160	29							
Diethyl phthalate	ND	160	29							
Dimethyl phthalate	ND	160	20							
Fluoranthene	ND	160	30							
Fluorene	ND	160	53							
Hexachlorobenzene	ND	160	27							
Hexachlorobutadiene	ND	330	26							
Hexachlorocyclopentadiene	ND	330	35							
Hexachloroethane	ND	160	47							
Indeno(1,2,3-cd)pyrene	ND	160	38							
Isophorone	ND	160	42							

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes

Batch B2B1160 - MSSEMI_NAL (continued)

Blank (B2B1160-BLK2) - Continued   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result	PQL	MDL	Spike Level	Source Result	% Rec	% Rec Limits
N-Nitroso-di-n propylamine	ND	160	30				
N-Nitrosodiphenylamine	ND	160	16				
Naphthalene	ND	160	28				
Nitrobenzene	ND	160	28				
Pentachlorophenol	ND	820	25				
Phenanthrene	ND	160	33				
Phenol	ND	160	17				
Pyrene	ND	160	36				
Pyridine	ND	820	130				
Surrogate: 1,2-Dichlorobenzene-d4	*1993*			*3333.33*		*59.8*	*23 - 102*
Surrogate: 2,4,6-Tribromophenol	*3955*			*5000.00*		*79.1*	*3 - 138*
Surrogate: 2-Chlorophenol-d4	*2798*			*5000.00*		*56.0*	*18 - 105*
Surrogate: 2-Fluorobiphenyl	*2118*			*3333.33*		*63.5*	*34 - 106*
Surrogate: 2-Fluorophenol	*2838*			*5000.00*		*56.8*	*16 - 94*
Surrogate: 4-Terphenyl-d14	*3178*			*3333.33*		*95.4*	*31 - 130*
Surrogate: Nitrobenzene-d5	*1849*			*3333.33*		*55.5*	*23 - 102*
Surrogate: Phenol-d6	*2942*			*5000.00*		*58.8*	*14 - 104*

LCS (B2B1160-BS1)   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result	PQL	MDL	Spike Level	Source Result	% Rec	% Rec Limits
1,2,4-Trichlorobenzene	2422.00	160	25	3333.33		72.7	41 - 104
1,2-Dichlorobenzene	2167.00	160	13	3333.33		65.0	37 - 100
1,3-Dichlorobenzene	2036.00	160	14	3333.33		61.1	36 - 98
1,4-Dichlorobenzene	2133.67	160	13	3333.33		64.0	37 - 97
2,4,5-Trichlorophenol	2791.67	160	15	3333.33		83.8	47 - 115
2,4,6-Trichlorophenol	2774.00	160	17	3333.33		83.2	48 - 119
2,4-Dichlorophenol	2535.67	820	17	3333.33		76.1	46 - 118
2,4-Dimethylphenol	2563.33	160	13	3333.33		76.9	41 - 114
2,4-Dinitrophenol	1980.67	820	43	3333.33		59.4	0 - 180
2,4-Dinitrotoluene	2845.33	160	17	3333.33		85.4	40 - 138
2,6-Dinitrotoluene	2972.33	160	24	3333.33		89.2	45 - 131
2-Chloronaphthalene	2533.67	160	14	3333.33		76.0	46 - 112
2-Chlorophenol	2172.33	160	15	3333.33		65.2	41 - 99
2-Methylnaphthalene	2522.00	160	14	3333.33		75.7	45 - 111
2-Methylphenol	2433.33	160	18	3333.33		73.0	40 - 92
2-Nitroaniline	2581.67	820	21	3333.33		77.5	44 - 130
2-Nitrophenol	2330.33	160	22	3333.33		69.9	34 - 114
3,3'-Dichlorobenzidine	2431.00	330	140	3333.33		72.9	41 - 128
3-Nitroaniline	2866.00	820	24	3333.33		86.0	47 - 123
4,6-Dinitro-2-methylphenol	2560.67	820	21	3333.33		76.8	2 - 172
4-Bromophenyl-phenylether	2956.33	160	32	3333.33		88.7	49 - 116
4-Chloro-3-methylphenol	2882.33	330	36	3333.33		86.5	45 - 127
4-Chloroaniline	2614.33	330	26	3333.33		78.4	50 - 106
4-Chlorophenyl-phenylether	2810.33	160	17	3333.33		84.3	49 - 115
4-Methylphenol	1239.67	160	28	1666.67		74.4	43 - 109
4-Nitroaniline	3169.00	820	19	3333.33		95.1	44 - 125

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Reported : 04/11/2022

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS1) - Continued

Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
4-Nitrophenol	2661.33	160	32	3333.33		79.8	30 - 146			
Acenaphthene	2570.33	160	21	3333.33		77.1	44 - 110			
Acenaphthylene	2754.00	160	31	3333.33		82.6	42 - 111			
Anthracene	3118.67	160	26	3333.33		93.6	41 - 117			
Benzidine (M)	997.667	820	710	3333.33		29.9	0 - 189			
Benzo(a)anthracene	2885.00	160	22	3333.33		86.6	45 - 110			
Benzo(a)pyrene	3363.00	160	32	3333.33		101	45 - 116			
Benzo(b)fluoranthene	3004.67	160	32	3333.33		90.1	43 - 112			
Benzo(g,h,i)perylene	3151.00	160	40	3333.33		94.5	43 - 113			
Benzo(k)fluoranthene	2713.67	160	16	3333.33		81.4	42 - 114			
Benzoic acid	1479.33	820	450	3333.33		44.4	0 - 134			
Benzyl alcohol	2525.33	330	16	3333.33		75.8	39 - 117			
bis(2-chloroethoxy)methane	2307.67	160	32	3333.33		69.2	43 - 102			
bis(2-Chloroethyl)ether	2227.67	160	33	3333.33		66.8	38 - 99			
bis(2-chloroisopropyl)ether	2255.67	160	38	3333.33		67.7	30 - 104			
bis(2-ethylhexyl)phthalate	2770.33	160	31	3333.33		83.1	49 - 123			
Butylbenzylphthalate	2827.33	160	21	3333.33		84.8	49 - 122			
Chrysene	2884.33	160	42	3333.33		86.5	46 - 111			
Di-n-butylphthalate	3133.67	160	25	3333.33		94.0	48 - 118			
Di-n-octylphthalate	2852.33	160	31	3333.33		85.6	46 - 131			
Dibenz(a,h)anthracene	3070.67	160	22	3333.33		92.1	43 - 113			
Dibenzofuran	2684.67	160	29	3333.33		80.5	50 - 113			
Diethyl phthalate	2912.00	160	29	3333.33		87.4	50 - 115			
Dimethyl phthalate	2892.00	160	20	3333.33		86.8	48 - 112			
Fluoranthene	3091.67	160	30	3333.33		92.8	40 - 119			
Fluorene	2774.00	160	53	3333.33		83.2	41 - 117			
Hexachlorobenzene	2946.33	160	27	3333.33		88.4	46 - 123			
Hexachlorobutadiene	2374.33	330	26	3333.33		71.2	37 - 104			
Hexachlorocyclopentadiene	2240.33	330	35	3333.33		67.2	30 - 128			
Hexachloroethane	2016.33	160	47	3333.33		60.5	38 - 103			
Indeno(1,2,3-cd)pyrene	3073.67	160	38	3333.33		92.2	43 - 113			
Isophorone	2619.33	160	42	3333.33		78.6	43 - 109			
N-Nitroso-di-n propylamine	2634.00	160	30	3333.33		79.0	44 - 111			
N-Nitrosodiphenylamine	2879.67	160	16	3333.33		86.4	48 - 113			
Naphthalene	2377.33	160	28	3333.33		71.3	38 - 103			
Nitrobenzene	2172.33	160	28	3333.33		65.2	40 - 111			
Pentachlorophenol	2934.33	820	25	3333.33		88.0	33 - 130			
Phenanthrene	3040.00	160	33	3333.33		91.2	42 - 119			
Phenol	2312.33	160	17	3333.33		69.4	43 - 104			
Pyrene	3192.00	160	36	3333.33		95.8	38 - 120			
Pyridine	ND	820	130	3333.33		NR	0 - 72			

Surrogate: 1,2-Dichlorobenzene-d4	2252			3333.33		67.6	23 - 102			
Surrogate: 2,4,6-Tribromophenol	5107			5000.00		102	3 - 138			
Surrogate: 2-Chlorophenol-d4	3357			5000.00		67.1	18 - 105			
Surrogate: 2-Fluorobiphenyl	2311			3333.33		69.3	34 - 106			

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS1) - Continued

Analyte	Result (ug/kg)	PQL (ug/kg)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Surrogate: 2-Fluorophenol	2955			5000.00		59.1	16 - 95			
Surrogate: 4-Terphenyl-d14	3067			3333.33		92.0	31 - 130			
Surrogate: Nitrobenzene-d5	2304			3333.33		69.1	23 - 102			
Surrogate: Phenol-d6	3336			5000.00		66.7	14 - 104			

Prepared: 2/23/2022 Analyzed: 2/28/2022

LCS (B2B1160-BS2)

Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)		Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	2455.00	160	25	3333.33		73.7	41 - 104			
1,2-Dichlorobenzene	2271.00	160	13	3333.33		68.1	37 - 100			
1,3-Dichlorobenzene	2212.33	160	14	3333.33		66.4	36 - 98			
1,4-Dichlorobenzene	2217.33	160	13	3333.33		66.5	37 - 97			
2,4,5-Trichlorophenol	2932.67	160	15	3333.33		88.0	47 - 115			
2,4,6-Trichlorophenol	2902.67	160	17	3333.33		87.1	48 - 119			
2,4-Dichlorophenol	2607.00	820	17	3333.33		78.2	46 - 118			
2,4-Dimethylphenol	2630.00	160	13	3333.33		78.9	41 - 114			
2,4-Dinitrophenol	2269.67	820	43	3333.33		68.1	0 - 180			
2,4-Dinitrotoluene	2853.33	160	17	3333.33		85.6	40 - 138			
2,6-Dinitrotoluene	2777.67	160	24	3333.33		83.3	45 - 131			
2-Chloronaphthalene	2525.67	160	14	3333.33		75.8	46 - 112			
2-Chlorophenol	2335.67	160	15	3333.33		70.1	41 - 99			
2-Methylnaphthalene	2472.67	160	14	3333.33		74.2	45 - 111			
2-Methylphenol	2510.67	160	18	3333.33		75.3	40 - 92			
2-Nitroaniline	2759.00	820	21	3333.33		82.8	44 - 130			
2-Nitrophenol	2410.33	160	22	3333.33		72.3	34 - 114			
3,3'-Dichlorobenzidine	2644.67	330	140	3333.33		79.3	41 - 128			
3-Nitroaniline	2790.67	820	24	3333.33		83.7	47 - 123			
4,6-Dinitro-2-methylphenol	2432.67	820	21	3333.33		73.0	2 - 172			
4-Bromophenyl-phenylether	2831.67	160	32	3333.33		85.0	49 - 116			
4-Chloro-3-methylphenol	2849.67	330	36	3333.33		85.5	45 - 127			
4-Chloroaniline	2671.00	330	26	3333.33		80.1	50 - 106			
4-Chlorophenyl-phenylether	2759.67	160	17	3333.33		82.8	49 - 115			
4-Methylphenol	1315.33	160	28	1666.67		78.9	43 - 109			
4-Nitroaniline	3087.67	820	19	3333.33		92.6	44 - 125			
4-Nitrophenol	2920.00	160	32	3333.33		87.6	30 - 146			
Acenaphthene	2630.00	160	21	3333.33		78.9	44 - 110			
Acenaphthylene	2756.00	160	31	3333.33		82.7	42 - 111			
Anthracene	3085.00	160	26	3333.33		92.6	41 - 117			
Benzidine (M)	1056.00	820	710	3333.33		31.7	0 - 189			
Benzo(a)anthracene	3124.33	160	22	3333.33		93.7	45 - 110			
Benzo(a)pyrene	3442.00	160	32	3333.33		103	45 - 116			
Benzo(b)fluoranthene	3006.00	160	32	3333.33		90.2	43 - 112			
Benzo(g,h,i)perylene	3200.00	160	40	3333.33		96.0	43 - 113			
Benzo(k)fluoranthene	3015.00	160	16	3333.33		90.5	42 - 114			
Benzoic acid	1409.00	820	450	3333.33		42.3	0 - 134			
Benzyl alcohol	2648.33	330	16	3333.33		79.4	39 - 117			
bis(2-chloroethoxy)methane	2418.67	160	32	3333.33		72.6	43 - 102			

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

LCS (B2B1160-BS2) - Continued — Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
bis(2-Chloroethyl)ether	2247.00	160	33	3333.33		67.4	38 - 99			
bis(2-chloroisopropyl)ether	2324.00	160	38	3333.33		69.7	30 - 104			
bis(2-ethylhexyl)phthalate	2978.00	160	31	3333.33		89.3	49 - 123			
Butylbenzylphthalate	2910.00	160	21	3333.33		87.3	49 - 122			
Chrysene	3111.00	160	42	3333.33		93.3	46 - 111			
Di-n-butylphthalate	3235.33	160	25	3333.33		97.1	48 - 118			
Di-n-octylphthalate	2862.67	160	31	3333.33		85.9	46 - 131			
Dibenz(a,h)anthracene	3145.67	160	22	3333.33		94.4	43 - 113			
Dibenzofuran	2696.33	160	29	3333.33		80.9	50 - 113			
Diethyl phthalate	3067.33	160	29	3333.33		92.0	50 - 115			
Dimethyl phthalate	2869.33	160	20	3333.33		86.1	48 - 112			
Fluoranthene	3039.67	160	30	3333.33		91.2	40 - 119			
Fluorene	2612.00	160	53	3333.33		78.4	41 - 117			
Hexachlorobenzene	3100.00	160	27	3333.33		93.0	46 - 123			
Hexachlorobutadiene	2389.00	330	26	3333.33		71.7	37 - 104			
Hexachlorocyclopentadiene	2261.00	330	35	3333.33		67.8	30 - 128			
Hexachloroethane	2284.33	160	47	3333.33		68.5	38 - 103			
Indeno(1,2,3-cd)pyrene	3142.00	160	38	3333.33		94.3	43 - 113			
Isophorone	2621.67	160	42	3333.33		78.7	43 - 109			
N-Nitroso-di-n propylamine	2745.67	160	30	3333.33		82.4	44 - 111			
N-Nitrosodiphenylamine	2813.33	160	16	3333.33		84.4	48 - 113			
Naphthalene	2359.33	160	28	3333.33		70.8	38 - 103			
Nitrobenzene	2293.33	160	28	3333.33		68.8	40 - 111			
Pentachlorophenol	3070.67	820	25	3333.33		92.1	33 - 130			
Phenanthrene	2968.00	160	33	3333.33		89.0	42 - 119			
Phenol	2380.67	160	17	3333.33		71.4	43 - 104			
Pyrene	3109.67	160	36	3333.33		93.3	38 - 120			
Pyridine	ND	820	130	3333.33		NR	0 - 72			
Surrogate: 1,2-Dichlorobenzene-d4	*2150*			*3333.33*		*64.5*	*23 - 102*			
Surrogate: 2,4,6-Tribromophenol	*5238*			*5000.00*		*105*	*3 - 138*			
Surrogate: 2-Chlorophenol-d4	*3359*			*5000.00*		*67.2*	*18 - 105*			
Surrogate: 2-Fluorobiphenyl	*2447*			*3333.33*		*73.4*	*34 - 106*			
Surrogate: 2-Fluorophenol	*3027*			*5000.00*		*60.5*	*16 - 94*			
Surrogate: 4-Terphenyl-d14	*3123*			*3333.33*		*93.7*	*31 - 130*			
Surrogate: Nitrobenzene-d5	*2322*			*3333.33*		*69.7*	*23 - 102*			
Surrogate: Phenol-d6	*3561*			*5000.00*		*71.2*	*14 - 104*			

Matrix Spike (B2B1160-MS1) — Source: 2200222-03 — Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	ND	99000	15000	20000.0	ND	NR	35 - 113			M6
1,2-Dichlorobenzene	ND	99000	7700	20000.0	ND	NR	32 - 102			M6
1,3-Dichlorobenzene	ND	99000	8200	20000.0	ND	NR	32 - 100			M6
1,4-Dichlorobenzene	ND	99000	8000	20000.0	ND	NR	33 - 97			M6
2,4,5-Trichlorophenol	ND	99000	8900	20000.0	ND	NR	36 - 124			M6
2,4,6-Trichlorophenol	ND	99000	10000	20000.0	ND	NR	37 - 130			M6
2,4-Dichlorophenol	ND	500000	10000	20000.0	ND	NR	32 - 130			M6

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

Matrix Spike (B2B1160-MS1) - Continued   Source: 2200222-03   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
2,4-Dimethylphenol	ND	99000	7700	20000.0	ND	NR	30 - 128			M6
2,4-Dinitrophenol	ND	500000	26000	20000.0	ND	NR	0 - 203			M6
2,4-Dinitrotoluene	ND	99000	10000	20000.0	ND	NR	21 - 168			M6
2,6-Dinitrotoluene	ND	99000	15000	20000.0	ND	NR	31 - 152			M6
2-Chloronaphthalene	ND	99000	8300	20000.0	ND	NR	33 - 130			M6
2-Chlorophenol	ND	99000	9200	20000.0	ND	NR	32 - 106			M6
2-Methylnaphthalene	ND	99000	8100	20000.0	ND	NR	33 - 125			M6
2-Methylphenol	ND	99000	11000	20000.0	ND	NR	34 - 96			M6
2-Nitroaniline	ND	500000	13000	20000.0	ND	NR	30 - 146			M6
2-Nitrophenol	ND	99000	13000	20000.0	ND	NR	22 - 125			M6
3,3´-Dichlorobenzidine	ND	200000	84000	20000.0	ND	NR	19 - 144			M6
3-Nitroaniline	ND	500000	15000	20000.0	ND	NR	36 - 133			M6
4,6-Dinitro-2-methylphenol	ND	500000	12000	20000.0	ND	NR	0 - 196			
4-Bromophenyl-phenylether	ND	99000	19000	20000.0	ND	NR	41 - 121			M6
4-Chloro-3-methylphenol	ND	200000	21000	20000.0	ND	NR	39 - 134			M6
4-Chloroaniline	ND	200000	16000	20000.0	ND	NR	37 - 115			M6
4-Chlorophenyl-phenylether	ND	99000	10000	20000.0	ND	NR	34 - 133			M6
4-Methylphenol	ND	99000	17000	10000.0	ND	NR	34 - 121			M6
4-Nitroaniline	ND	500000	11000	20000.0	ND	NR	30 - 138			M6
4-Nitrophenol	ND	99000	19000	20000.0	ND	NR	5 - 154			M6
Acenaphthene	ND	99000	13000	20000.0	ND	NR	33 - 121			M6
Acenaphthylene	ND	99000	18000	20000.0	ND	NR	35 - 120			M6
Anthracene	31600.0	99000	15000	20000.0	ND	158	28 - 133			M6
Benzidine (M)	ND	500000	430000	20000.0	ND	NR	8 - 175			M6
Benzo(a)anthracene	30600.0	99000	13000	20000.0	ND	153	32 - 127			M6
Benzo(a)pyrene	ND	99000	19000	20000.0	ND	NR	35 - 127			M6
Benzo(b)fluoranthene	52400.0	99000	19000	20000.0	ND	262	29 - 126			M6
Benzo(g,h,i)perylene	ND	99000	24000	20000.0	ND	NR	26 - 129			M6
Benzo(k)fluoranthene	20800.0	99000	9800	20000.0	ND	104	36 - 120			M6
Benzoic acid	ND	500000	270000	20000.0	ND	NR	0 - 208			
Benzyl alcohol	ND	200000	9600	20000.0	ND	NR	32 - 120			M6
bis(2-chloroethoxy)methane	ND	99000	19000	20000.0	ND	NR	34 - 108			M6
bis(2-Chloroethyl)ether	ND	99000	20000	20000.0	ND	NR	34 - 100			M6
bis(2-chloroisopropyl)ether	ND	99000	23000	20000.0	ND	NR	21 - 111			M6
bis(2-ethylhexyl)phthalate	197600	99000	19000	20000.0	ND	988	39 - 131			M6
Butylbenzylphthalate	189600	99000	12000	20000.0	ND	948	39 - 129			M6
Chrysene	66800.0	99000	25000	20000.0	ND	334	33 - 126			M6
Di-n-butylphthalate	ND	99000	15000	20000.0	ND	NR	42 - 122			M6
Di-n-octylphthalate	214000	99000	19000	20000.0	ND	1070	30 - 147			M6
Dibenz(a,h)anthracene	ND	99000	13000	20000.0	ND	NR	30 - 126			M6
Dibenzofuran	ND	99000	17000	20000.0	ND	NR	36 - 133			M6
Diethyl phthalate	ND	99000	18000	20000.0	ND	NR	28 - 139			M6
Dimethyl phthalate	ND	99000	12000	20000.0	ND	NR	32 - 129			M6
Fluoranthene	268200	99000	18000	20000.0	ND	1340	23 - 140			M6
Fluorene	ND	99000	32000	20000.0	ND	NR	32 - 130			M6

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

Matrix Spike (B2B1160-MS1) - Continued   Source: 2200222-03   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Hexachlorobenzene	ND	99000	16000	20000.0	ND	NR	27 - 148			M6
Hexachlorobutadiene	ND	200000	16000	20000.0	ND	NR	29 - 112			M6
Hexachlorocyclopentadiene	ND	200000	21000	20000.0	ND	NR	13 - 147			M6
Hexachloroethane	ND	99000	28000	20000.0	ND	NR	31 - 104			M6
Indeno(1,2,3-cd)pyrene	ND	99000	23000	20000.0	ND	NR	21 - 137			M6
Isophorone	ND	99000	25000	20000.0	ND	NR	34 - 112			M6
N-Nitroso-di-n propylamine	ND	99000	18000	20000.0	ND	NR	36 - 115			M6
N-Nitrosodiphenylamine	ND	99000	9500	20000.0	ND	NR	40 - 120			M6
Naphthalene	ND	99000	17000	20000.0	ND	NR	33 - 108			M6
Nitrobenzene	ND	99000	17000	20000.0	ND	NR	32 - 122			M6
Pentachlorophenol	231400	500000	15000	20000.0	ND	1160	0 - 151			M6
Phenanthrene	73400.0	99000	20000	20000.0	ND	367	40 - 122			M6
Phenol	ND	99000	10000	20000.0	ND	NR	35 - 112			M6
Pyrene	124000	99000	22000	20000.0	ND	620	28 - 132			M6
Pyridine	ND	500000	80000	20000.0	ND	NR	5 - 107			M6
Surrogate: 1,2-Dichlorobenzene-d4	*6000*			*20000.0*		*30.0*	*23 - 102*			*S4*
Surrogate: 2,4,6-Tribromophenol	*0.000*			*30000.0*		*NR*	*3 - 138*			*S4*
Surrogate: 2-Chlorophenol-d4	*0.000*			*30000.0*		*NR*	*18 - 105*			*S4*
Surrogate: 2-Fluorobiphenyl	*8800*			*20000.0*		*44.0*	*34 - 106*			*S4*
Surrogate: 2-Fluorophenol	*0.000*			*30000.0*		*NR*	*16 - 94*			*S4*
Surrogate: 4-Terphenyl-d14	*13200*			*20000.0*		*66.0*	*31 - 130*			*S4*
Surrogate: Nitrobenzene-d5	*0.000*			*20000.0*		*NR*	*23 - 102*			*S4*
Surrogate: Phenol-d6	*0.000*			*30000.0*		*NR*	*14 - 104*			*S4*

Matrix Spike Dup (B2B1160-MSD1)   Source: 2200222-03   Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	ND	99000	15000	20000.0	ND	NR	35 - 113	NR	20	M6
1,2-Dichlorobenzene	ND	99000	7700	20000.0	ND	NR	32 - 102	NR	20	M6
1,3-Dichlorobenzene	ND	99000	8200	20000.0	ND	NR	32 - 100	NR	20	M6
1,4-Dichlorobenzene	ND	99000	8000	20000.0	ND	NR	33 - 97	NR	20	M6
2,4,5-Trichlorophenol	ND	99000	8900	20000.0	ND	NR	36 - 124	NR	20	M6
2,4,6-Trichlorophenol	ND	99000	10000	20000.0	ND	NR	37 - 130	NR	20	M6
2,4-Dichlorophenol	ND	500000	10000	20000.0	ND	NR	32 - 130	NR	20	M6
2,4-Dimethylphenol	ND	99000	7700	20000.0	ND	NR	30 - 128	NR	20	M6
2,4-Dinitrophenol	ND	500000	26000	20000.0	ND	NR	0 - 203	NR	20	M6
2,4-Dinitrotoluene	ND	99000	10000	20000.0	ND	NR	21 - 168	NR	20	M6
2,6-Dinitrotoluene	ND	99000	15000	20000.0	ND	NR	31 - 152	NR	20	M6
2-Chloronaphthalene	ND	99000	8300	20000.0	ND	NR	33 - 130	NR	20	M6
2-Chlorophenol	ND	99000	9200	20000.0	ND	NR	32 - 106	NR	20	M6
2-Methylnaphthalene	ND	99000	8100	20000.0	ND	NR	33 - 125	NR	20	M6
2-Methylphenol	ND	99000	11000	20000.0	ND	NR	34 - 96	NR	20	M6
2-Nitroaniline	ND	500000	13000	20000.0	ND	NR	30 - 146	NR	20	M6
2-Nitrophenol	ND	99000	13000	20000.0	ND	NR	22 - 125	NR	20	M6
3,3´-Dichlorobenzidine	ND	200000	84000	20000.0	ND	NR	19 - 144	NR	20	M6
3-Nitroaniline	ND	500000	15000	20000.0	ND	NR	36 - 133	NR	20	M6
4,6-Dinitro-2-methylphenol	ND	500000	12000	20000.0	ND	NR	0 - 196	NR	20	M6

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

Matrix Spike Dup (B2B1160-MSD1) - Continued   Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level (ug/kg)	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
4-Bromophenyl-phenylether	ND	99000	19000	20000.0	ND	NR	41 - 121	NR	20	M6
4-Chloro-3-methylphenol	ND	200000	21000	20000.0	ND	NR	39 - 134	NR	20	M6
4-Chloroaniline	ND	200000	16000	20000.0	ND	NR	37 - 115	NR	20	M6
4-Chlorophenyl-phenylether	ND	99000	10000	20000.0	ND	NR	34 - 133	NR	20	M6
4-Methylphenol	ND	99000	17000	10000.0	ND	NR	34 - 121	NR	20	M6
4-Nitroaniline	ND	500000	11000	20000.0	ND	NR	30 - 138	NR	20	M6
4-Nitrophenol	ND	99000	19000	20000.0	ND	NR	5 - 154	NR	20	M6
Acenaphthene	ND	99000	13000	20000.0	ND	NR	33 - 121	NR	20	M6
Acenaphthylene	ND	99000	18000	20000.0	ND	NR	35 - 120	NR	20	M6
Anthracene	30800.0	99000	15000	20000.0	ND	154	28 - 133	2.56	20	M6
Benzidine (M)	ND	500000	430000	20000.0	ND	NR	8 - 175	NR	20	M6
Benzo(a)anthracene	27000.0	99000	13000	20000.0	ND	135	32 - 127	12.5	20	M6
Benzo(a)pyrene	ND	99000	19000	20000.0	ND	NR	35 - 127	NR	20	M6
Benzo(b)fluoranthene	53600.0	99000	19000	20000.0	ND	268	29 - 126	2.26	20	M6
Benzo(g,h,i)perylene	ND	99000	24000	20000.0	ND	NR	26 - 129	NR	20	M6
Benzo(k)fluoranthene	ND	99000	9800	20000.0	ND	NR	36 - 120	NR	20	M6
Benzoic acid	ND	500000	270000	20000.0	ND	NR	0 - 208	NR	20	
Benzyl alcohol	ND	200000	9600	20000.0	ND	NR	32 - 120	NR	20	M6
bis(2-chloroethoxy)methane	ND	99000	19000	20000.0	ND	NR	34 - 108	NR	20	M6
bis(2-Chloroethyl)ether	ND	99000	20000	20000.0	ND	NR	34 - 100	NR	20	M6
bis(2-chloroisopropyl)ether	ND	99000	23000	20000.0	ND	NR	21 - 111	NR	20	M6
bis(2-ethylhexyl)phthalate	198400	99000	19000	20000.0	ND	992	39 - 131	0.404	20	M6
Butylbenzylphthalate	187400	99000	12000	20000.0	ND	937	39 - 129	1.17	20	M6
Chrysene	67800.0	99000	25000	20000.0	ND	339	33 - 126	1.49	20	M6
Di-n-butylphthalate	ND	99000	15000	20000.0	ND	NR	42 - 122	NR	20	M6
Di-n-octylphthalate	213600	99000	19000	20000.0	ND	1070	30 - 147	0.187	20	M6
Dibenz(a,h)anthracene	ND	99000	13000	20000.0	ND	NR	30 - 126	NR	20	M6
Dibenzofuran	ND	99000	17000	20000.0	ND	NR	36 - 133	NR	20	M6
Diethyl phthalate	ND	99000	18000	20000.0	ND	NR	28 - 139	NR	20	M6
Dimethyl phthalate	ND	99000	12000	20000.0	ND	NR	32 - 129	NR	20	M6
Fluoranthene	275000	99000	18000	20000.0	ND	1380	23 - 140	2.50	20	M6
Fluorene	ND	99000	32000	20000.0	ND	NR	32 - 130	NR	20	M6
Hexachlorobenzene	ND	99000	16000	20000.0	ND	NR	27 - 148	NR	20	M6
Hexachlorobutadiene	ND	200000	16000	20000.0	ND	NR	29 - 112	NR	20	M6
Hexachlorocyclopentadiene	ND	200000	21000	20000.0	ND	NR	13 - 147	NR	20	M6
Hexachloroethane	ND	99000	28000	20000.0	ND	NR	31 - 104	NR	20	M6
Indeno(1,2,3-cd)pyrene	ND	99000	23000	20000.0	ND	NR	21 - 137	NR	20	M6
Isophorone	ND	99000	25000	20000.0	ND	NR	34 - 112	NR	20	M6
N-Nitroso-di-n propylamine	ND	99000	18000	20000.0	ND	NR	36 - 115	NR	20	M6
N-Nitrosodiphenylamine	ND	99000	9500	20000.0	ND	NR	40 - 120	NR	20	M6
Naphthalene	ND	99000	17000	20000.0	ND	NR	33 - 108	NR	20	M6
Nitrobenzene	ND	99000	17000	20000.0	ND	NR	32 - 122	NR	20	M6
Pentachlorophenol	217400	500000	15000	20000.0	ND	1090	0 - 151	6.24	20	M6
Phenanthrene	74600.0	99000	20000	20000.0	ND	373	40 - 122	1.62	20	M6
Phenol	ND	99000	10000	20000.0	ND	NR	35 - 112	NR	20	M6

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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2B1160 - MSSEMI_NAL (continued)

Matrix Spike Dup (B2B1160-MSD1) - Continued Source: 2200222-03

Prepared: 2/23/2022 Analyzed: 2/28/2022

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Pyrene	116200	99000	22000	20000.0	ND	581	28 - 132	6.49	20	M6
Pyridine	ND	500000	80000	20000.0	ND	NR	5 - 107	NR	20	M6
Surrogate: 1,2-Dichlorobenzene-d4	*6000*			*20000.0*		*30.0*	*23 - 102*			
Surrogate: 2,4,6-Tribromophenol	*0.000*			*30000.0*		*NR*	*3 - 138*			*S4*
Surrogate: 2-Chlorophenol-d4	*0.000*			*30000.0*		*NR*	*18 - 105*			*S4*
Surrogate: 2-Fluorobiphenyl	*10200*			*20000.0*		*51.0*	*34 - 106*			
Surrogate: 2-Fluorophenol	*0.000*			*30000.0*		*NR*	*16 - 94*			*S4*
Surrogate: 4-Terphenyl-d14	*14000*			*20000.0*		*70.0*	*31 - 130*			
Surrogate: Nitrobenzene-d5	*0.000*			*20000.0*		*NR*	*23 - 102*			*S4*
Surrogate: Phenol-d6	*0.000*			*30000.0*		*NR*	*14 - 104*			*S4*

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TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control

Batch B2D1163 - MSSEMI_LEACHEATE_W

Blank (B2D1163-BLK1)   Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	ND	0.01	0.003							
1,2-Dichlorobenzene	ND	0.01	0.002							
1,3-Dichlorobenzene	ND	0.01	0.002							
1,4-Dichlorobenzene	ND	0.01	0.002							
2,4,5-Trichlorophenol	ND	0.01	0.003							
2,4,6-Trichlorophenol	ND	0.01	0.005							
2,4-Dichlorophenol	ND	0.01	0.005							
2,4-Dimethylphenol	ND	0.01	0.004							
2,4-Dinitrophenol	ND	0.05	0.004							
2,4-Dinitrotoluene	ND	0.01	0.003							
2,6-Dinitrotoluene	ND	0.01	0.003							
2-Chloronaphthalene	ND	0.01	0.003							
2-Chlorophenol	ND	0.01	0.004							
2-Methylnaphthalene	ND	0.01	0.003							
2-Methylphenol	ND	0.01	0.002							
2-Nitroaniline	ND	0.05	0.003							
2-Nitrophenol	ND	0.01	0.005							
3,3´-Dichlorobenzidine	ND	0.02	0.02							
3-Nitroaniline	ND	0.05	0.003							
4,6-Dinitro-2-methylphenol	ND	0.05	0.006							
4-Bromophenyl-phenylether	ND	0.01	0.003							
4-Chloro-3-methylphenol	ND	0.05	0.005							
4-Chloroaniline	ND	0.02	0.003							
4-Chlorophenyl-phenylether	ND	0.01	0.003							
3/4-Methylphenol	ND	0.01	0.002							
4-Methylphenol	ND	0.01	0.002							
4-Nitroaniline	ND	0.02	0.003							
4-Nitrophenol	ND	0.05	0.003							
Acenaphthene	ND	0.01	0.003							
Acenaphthylene	ND	0.01	0.002							
Anthracene	ND	0.01	0.003							
Benzo(a)anthracene	ND	0.01	0.004							
Benzo(a)pyrene	ND	0.01	0.004							
Benzo(b)fluoranthene	ND	0.01	0.005							
Benzo(g,h,i)perylene	ND	0.01	0.004							
Benzo(k)fluoranthene	ND	0.01	0.004							
Benzoic acid	ND	0.05	0.02							
Benzyl alcohol	ND	0.02	0.003							
bis(2-chloroethoxy)methane	ND	0.01	0.003							
bis(2-Chloroethyl)ether	ND	0.01	0.002							
bis(2-chloroisopropyl)ether	ND	0.01	0.003							
bis(2-ethylhexyl)phthalate	ND	0.01	0.003							
Butylbenzylphthalate	ND	0.01	0.003							
Chrysene	ND	0.01	0.004							
Di-n-butylphthalate	ND	0.01	0.003							

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TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level (mg/L)	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)										
Blank (B2D1163-BLK1) - Continued				Prepared: 4/5/2022 Analyzed: 4/5/2022						
Di-n-octylphthalate	ND	0.01	0.004							
Dibenz(a,h)anthracene	ND	0.01	0.004							
Dibenzofuran	ND	0.01	0.003							
Diethyl phthalate	ND	0.01	0.003							
Dimethyl phthalate	ND	0.01	0.003							
Fluoranthene	ND	0.01	0.003							
Fluorene	ND	0.01	0.003							
Hexachlorobenzene	ND	0.01	0.003							
Hexachlorobutadiene	ND	0.02	0.003							
Hexachlorocyclopentadiene	ND	0.01	0.002							
Hexachloroethane	ND	0.01	0.002							
Indeno(1,2,3-cd)pyrene	ND	0.01	0.004							
Isophorone	ND	0.01	0.003							
N-Nitroso-di-n propylamine	ND	0.01	0.002							
N-Nitrosodiphenylamine	ND	0.01	0.003							
Naphthalene	ND	0.01	0.002							
Nitrobenzene	ND	0.01	0.003							
Pentachlorophenol	ND	0.05	0.004							
Phenanthrene	ND	0.01	0.003							
Phenol	ND	0.01	0.003							
Pyrene	ND	0.01	0.003							
Pyridine	ND	0.05	0.01							
Surrogate: 1,2-Dichlorobenzene-d4	*0.02342*			*0.100000*		*23.4*	*21 - 92*			
Surrogate: 2,4,6-Tribromophenol	*0.04563*			*0.150000*		*30.4*	*24 - 113*			
Surrogate: 2-Chlorophenol-d4	*0.01963*			*0.150000*		*13.1*	*14 - 86*			*S16*
Surrogate: 2-Fluorobiphenyl	*0.02401*			*0.100000*		*24.0*	*28 - 105*			*S16*
Surrogate: 2-Fluorophenol	*0.01087*			*0.150000*		*7.25*	*0 - 59*			
Surrogate: 4-Terphenyl-d14	*0.03611*			*0.100000*		*36.1*	*32 - 116*			
Surrogate: Nitrobenzene-d5	*0.02489*			*0.100000*		*24.9*	*25 - 101*			*S16*
Surrogate: Phenol-d6	*0.008670*			*0.150000*		*5.78*	*0 - 48*			
LCS (B2D1163-BS1)				Prepared: 4/5/2022 Analyzed: 4/5/2022						
1,2,4-Trichlorobenzene	0.05387	0.01	0.003	0.100000		53.9	37 - 96			
1,2-Dichlorobenzene	0.04567	0.01	0.002	0.100000		45.7	36 - 86			
1,3-Dichlorobenzene	0.04579	0.01	0.002	0.100000		45.8	35 - 84			
1,4-Dichlorobenzene	0.04637	0.01	0.002	0.100000		46.4	36 - 83			
2,4,5-Trichlorophenol	0.0647	0.01	0.003	0.100000		64.7	37 - 107			
2,4,6-Trichlorophenol	0.05978	0.01	0.005	0.100000		59.8	39 - 116			
2,4-Dichlorophenol	0.04895	0.01	0.005	0.100000		49.0	36 - 110			
2,4-Dimethylphenol	0.04705	0.01	0.004	0.100000		47.0	31 - 99			
2,4-Dinitrophenol	0.08085	0.05	0.004	0.100000		80.8	0 - 169			
2,4-Dinitrotoluene	0.08236	0.01	0.003	0.100000		82.4	46 - 123			
2,6-Dinitrotoluene	0.0755	0.01	0.003	0.100000		75.5	46 - 120			
2-Chloronaphthalene	0.057	0.01	0.003	0.100000		57.0	41 - 107			
2-Chlorophenol	0.03608	0.01	0.004	0.100000		36.1	24 - 89			

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS (B2D1163-BS1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level (mg/L)	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	0.05705	0.01	0.003	0.100000		57.0	40 - 101			
2-Methylphenol	0.03071	0.01	0.002	0.100000		30.7	8 - 79			
2-Nitroaniline	0.06968	0.05	0.003	0.100000		69.7	38 - 128			
2-Nitrophenol	0.05356	0.01	0.005	0.100000		53.6	30 - 103			
3,3'-Dichlorobenzidine	0.06574	0.02	0.02	0.100000		65.7	40 - 126			
3-Nitroaniline	0.07687	0.05	0.003	0.100000		76.9	33 - 117			
4,6-Dinitro-2-methyphenol	0.08218	0.05	0.006	0.100000		82.2	5 - 155			
4-Bromophenyl-phenylether	0.07283	0.01	0.003	0.100000		72.8	46 - 110			
4-Chloro-3-methylphenol	0.05523	0.05	0.005	0.100000		55.2	29 - 116			
4-Chloroaniline	0.0522	0.02	0.003	0.100000		52.2	28 - 104			
4-Chlorophenyl-phenylether	0.07195	0.01	0.003	0.100000		72.0	45 - 111			
3/4-Methylphenol	ND	0.01	0.002			NR	13 - 100			
4-Methylphenol	0.01448	0.01	0.002	5.00000E-2		29.0	13 - 100			
4-Nitroaniline	0.07679	0.02	0.003	0.100000		76.8	38 - 112			
4-Nitrophenol	0.02369	0.05	0.003	0.100000		23.7	6 - 48			
Acenaphthene	0.06547	0.01	0.003	0.100000		65.5	38 - 109			
Acenaphthylene	0.06266	0.01	0.002	0.100000		62.7	38 - 109			
Anthracene	0.07713	0.01	0.003	0.100000		77.1	41 - 109			
Benzo(a)anthracene	0.07896	0.01	0.004	0.100000		79.0	39 - 110			
Benzo(a)pyrene	0.08093	0.01	0.004	0.100000		80.9	39 - 112			
Benzo(b)fluoranthene	0.08119	0.01	0.005	0.100000		81.2	37 - 108			
Benzo(g,h,i)perylene	0.07364	0.01	0.004	0.100000		73.6	34 - 117			
Benzo(k)fluoranthene	0.07831	0.01	0.004	0.100000		78.3	39 - 107			
Benzoic acid	0.179190	0.05	0.02	0.100000		179	0 - 149			L5
Benzyl alcohol	0.03752	0.02	0.003	0.100000		37.5	11 - 91			
bis(2-chloroethoxy)methane	0.05504	0.01	0.003	0.100000		55.0	42 - 98			
bis(2-Chloroethyl)ether	0.05036	0.01	0.002	0.100000		50.4	31 - 93			
bis(2-chloroisopropyl)ether	0.03218	0.01	0.003	0.100000		32.2	38 - 89			L4
bis(2-ethylhexyl)phthalate	0.07192	0.01	0.003	0.100000		71.9	44 - 118			
Butylbenzylphthalate	0.07505	0.01	0.003	0.100000		75.0	44 - 116			
Chrysene	0.0794	0.01	0.004	0.100000		79.4	41 - 108			
Di-n-butylphthalate	0.07516	0.01	0.003	0.100000		75.2	51 - 110			
Di-n-octylphthalate	0.07583	0.01	0.004	0.100000		75.8	36 - 127			
Dibenz(a,h)anthracene	0.0731	0.01	0.004	0.100000		73.1	35 - 116			
Dibenzofuran	0.06647	0.01	0.003	0.100000		66.5	45 - 107			
Diethyl phthalate	0.07561	0.01	0.003	0.100000		75.6	49 - 111			
Dimethyl phthalate	0.07153	0.01	0.003	0.100000		71.5	48 - 107			
Fluoranthene	0.08036	0.01	0.003	0.100000		80.4	43 - 109			
Fluorene	0.07202	0.01	0.003	0.100000		72.0	37 - 114			
Hexachlorobenzene	0.0742	0.01	0.003	0.100000		74.2	43 - 114			
Hexachlorobutadiene	0.04913	0.02	0.003	0.100000		49.1	34 - 95			
Hexachlorocyclopentadiene	0.04618	0.01	0.002	0.100000		46.2	26 - 120			
Hexachloroethane	0.04688	0.01	0.002	0.100000		46.9	33 - 89			
Indeno(1,2,3-cd)pyrene	0.07531	0.01	0.004	0.100000		75.3	35 - 116			
Isophorone	0.05825	0.01	0.003	0.100000		58.2	40 - 110			

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807

Project Number: March ARB / 21 0210 021
Report To: Andrew Schmidt
Reported: 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS (B2D1163-BS1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
N-Nitroso-di-n propylamine	0.0572	0.01	0.002	0.100000		57.2	43 - 104			
N-Nitrosodiphenylamine	0.06831	0.01	0.003	0.100000		68.3	48 - 106			
Naphthalene	0.05256	0.01	0.002	0.100000		52.6	33 - 99			
Nitrobenzene	0.05352	0.01	0.003	0.100000		53.5	38 - 107			
Pentachlorophenol	0.08493	0.05	0.004	0.100000		84.9	25 - 130			
Phenanthrene	0.07671	0.01	0.003	0.100000		76.7	44 - 111			
Phenol	0.03065	0.01	0.003	0.100000		30.6	5 - 43			
Pyrene	0.08028	0.01	0.003	0.100000		80.3	42 - 108			
Pyridine	0.01505	0.05	0.01	0.100000		15.0	0 - 59			
Surrogate: 1,2-Dichlorobenzene-d4	*0.04673*			*0.100000*		*46.7*	*21 - 92*			
Surrogate: 2,4,6-Tribromophenol	*0.1269*			*0.150000*		*84.6*	*24 - 113*			
Surrogate: 2-Chlorophenol-d4	*0.05493*			*0.150000*		*36.6*	*14 - 86*			
Surrogate: 2-Fluorobiphenyl	*0.05371*			*0.100000*		*53.7*	*28 - 105*			
Surrogate: 2-Fluorophenol	*0.02696*			*0.150000*		*18.0*	*0 - 59*			
Surrogate: 4-Terphenyl-d14	*0.07276*			*0.100000*		*72.8*	*32 - 116*			
Surrogate: Nitrobenzene-d5	*0.05254*			*0.100000*		*52.5*	*25 - 101*			
Surrogate: Phenol-d6	*0.02288*			*0.150000*		*15.3*	*0 - 48*			

LCS Dup (B2D1163-BSD1)

Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	0.0528	0.01	0.003	0.100000		52.8	37 - 96	2.01	20	
1,2-Dichlorobenzene	0.04634	0.01	0.002	0.100000		46.3	36 - 86	1.46	20	
1,3-Dichlorobenzene	0.04358	0.01	0.002	0.100000		43.6	35 - 84	4.95	20	
1,4-Dichlorobenzene	0.04577	0.01	0.002	0.100000		45.8	36 - 83	1.30	20	
2,4,5-Trichlorophenol	0.0593	0.01	0.003	0.100000		59.3	37 - 107	8.71	20	
2,4,6-Trichlorophenol	0.05648	0.01	0.005	0.100000		56.5	39 - 116	5.68	20	
2,4-Dichlorophenol	0.04409	0.01	0.005	0.100000		44.1	36 - 110	10.4	20	
2,4-Dimethylphenol	0.03976	0.01	0.004	0.100000		39.8	31 - 99	16.8	20	
2,4-Dinitrophenol	0.07164	0.05	0.004	0.100000		71.6	0 - 169	12.1	20	
2,4-Dinitrotoluene	0.07813	0.01	0.003	0.100000		78.1	46 - 123	5.27	20	
2,6-Dinitrotoluene	0.0754	0.01	0.003	0.100000		75.4	46 - 120	0.133	20	
2-Chloronaphthalene	0.05841	0.01	0.003	0.100000		58.4	41 - 107	2.44	20	
2-Chlorophenol	0.03057	0.01	0.004	0.100000		30.6	24 - 89	16.5	20	
2-Methylnaphthalene	0.05626	0.01	0.003	0.100000		56.3	40 - 101	1.39	20	
2-Methylphenol	0.02738	0.01	0.002	0.100000		27.4	8 - 79	11.5	20	
2-Nitroaniline	0.07053	0.05	0.003	0.100000		70.5	38 - 128	1.21	20	
2-Nitrophenol	0.04485	0.01	0.005	0.100000		44.8	30 - 103	17.7	20	
3,3'-Dichlorobenzidine	0.0633	0.02	0.02	0.100000		63.3	40 - 126	3.78	20	
3-Nitroaniline	0.07585	0.05	0.003	0.100000		75.8	33 - 117	1.34	20	
4,6-Dinitro-2-methyphenol	0.07428	0.05	0.006	0.100000		74.3	5 - 155	10.1	20	
4-Bromophenyl-phenylether	0.07539	0.01	0.003	0.100000		75.4	46 - 110	3.45	20	
4-Chloro-3-methylphenol	0.04596	0.05	0.005	0.100000		46.0	29 - 116	18.3	20	
4-Chloroaniline	0.04993	0.02	0.003	0.100000		49.9	28 - 104	4.45	20	
4-Chlorophenyl-phenylether	0.07544	0.01	0.003	0.100000		75.4	45 - 111	4.74	20	
3/4-Methylphenol	ND	0.01	0.002			NR	13 - 100	NR	20	
4-Methylphenol	0.01321	0.01	0.002	5.00000E-2		26.4	13 - 100	9.17	20	

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS Dup (B2D1163-BSD1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level (mg/L)	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
4-Nitroaniline	0.07577	0.02	0.003	0.100000		75.8	38 - 112	1.34	20	
4-Nitrophenol	0.02396	0.05	0.003	0.100000		24.0	6 - 48	1.13	20	
Acenaphthene	0.06819	0.01	0.003	0.100000		68.2	38 - 109	4.07	20	
Acenaphthylene	0.0646	0.01	0.002	0.100000		64.6	38 - 109	3.05	20	
Anthracene	0.08025	0.01	0.003	0.100000		80.2	41 - 109	3.96	20	
Benzo(a)anthracene	0.07824	0.01	0.004	0.100000		78.2	39 - 110	0.916	20	
Benzo(a)pyrene	0.08046	0.01	0.004	0.100000		80.5	39 - 112	0.582	20	
Benzo(b)fluoranthene	0.08532	0.01	0.005	0.100000		85.3	37 - 108	4.96	20	
Benzo(g,h,i)perylene	0.07351	0.01	0.004	0.100000		73.5	34 - 117	0.177	20	
Benzo(k)fluoranthene	0.07706	0.01	0.004	0.100000		77.1	39 - 107	1.61	20	
Benzoic acid	0.167880	0.05	0.02	0.100000		168	0 - 149	6.52	20	L5
Benzyl alcohol	0.03565	0.02	0.003	0.100000		35.6	11 - 91	5.11	20	
bis(2-chloroethoxy)methane	0.05312	0.01	0.003	0.100000		53.1	42 - 98	3.55	20	
bis(2-Chloroethyl)ether	0.04878	0.01	0.002	0.100000		48.8	31 - 93	3.19	20	
bis(2-chloroisopropyl)ether	0.03136	0.01	0.003	0.100000		31.4	38 - 89	2.58	20	L4
bis(2-ethylhexyl)phthalate	0.07168	0.01	0.003	0.100000		71.7	44 - 118	0.334	20	
Butylbenzylphthalate	0.0742	0.01	0.003	0.100000		74.2	44 - 116	1.14	20	
Chrysene	0.07849	0.01	0.004	0.100000		78.5	41 - 108	1.15	20	
Di-n-butylphthalate	0.07657	0.01	0.003	0.100000		76.6	51 - 110	1.86	20	
Di-n-octylphthalate	0.0762	0.01	0.004	0.100000		76.2	36 - 127	0.487	20	
Dibenz(a,h)anthracene	0.07218	0.01	0.004	0.100000		72.2	35 - 116	1.27	20	
Dibenzofuran	0.06896	0.01	0.003	0.100000		69.0	45 - 107	3.68	20	
Diethyl phthalate	0.07625	0.01	0.003	0.100000		76.2	49 - 111	0.843	20	
Dimethyl phthalate	0.0711	0.01	0.003	0.100000		71.1	48 - 107	0.603	20	
Fluoranthene	0.082	0.01	0.003	0.100000		82.0	43 - 109	2.02	20	
Fluorene	0.07403	0.01	0.003	0.100000		74.0	37 - 114	2.75	20	
Hexachlorobenzene	0.07737	0.01	0.003	0.100000		77.4	43 - 114	4.18	20	
Hexachlorobutadiene	0.04969	0.02	0.003	0.100000		49.7	34 - 95	1.13	20	
Hexachlorocyclopentadiene	0.04519	0.01	0.002	0.100000		45.2	26 - 120	2.17	20	
Hexachloroethane	0.04262	0.01	0.002	0.100000		42.6	33 - 89	9.52	20	
Indeno(1,2,3-cd)pyrene	0.07561	0.01	0.004	0.100000		75.6	35 - 116	0.398	20	
Isophorone	0.05875	0.01	0.003	0.100000		58.8	40 - 110	0.855	20	
N-Nitroso-di-n propylamine	0.05409	0.01	0.002	0.100000		54.1	43 - 104	5.59	20	
N-Nitrosodiphenylamine	0.07023	0.01	0.003	0.100000		70.2	48 - 106	2.77	20	
Naphthalene	0.05168	0.01	0.002	0.100000		51.7	33 - 99	1.69	20	
Nitrobenzene	0.05246	0.01	0.003	0.100000		52.5	38 - 107	2.00	20	
Pentachlorophenol	0.07732	0.05	0.004	0.100000		77.3	25 - 130	9.38	20	
Phenanthrene	0.07805	0.01	0.003	0.100000		78.0	44 - 111	1.73	20	
Phenol	0.028	0.01	0.003	0.100000		28.0	5 - 43	9.04	20	
Pyrene	0.08074	0.01	0.003	0.100000		80.7	42 - 108	0.571	20	
Pyridine	0.0143	0.05	0.01	0.100000		14.3	0 - 59	5.11	20	

Surrogate: 1,2-Dichlorobenzene-d4	*0.04558*			*0.100000*		*45.6*	*21 - 92*			
Surrogate: 2,4,6-Tribromophenol	*0.1198*			*0.150000*		*79.9*	*24 - 113*			
Surrogate: 2-Chlorophenol-d4	*0.04528*			*0.150000*		*30.2*	*14 - 86*			
Surrogate: 2-Fluorobiphenyl	*0.05557*			*0.100000*		*55.6*	*28 - 105*			

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : March ARB / 21 0210 021

Report To : Andrew Schmidt

Reported : 04/11/2022

TCLP Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Batch B2D1163 - MSSEMI_LEACHEATE_W (continued)

LCS Dup (B2D1163-BSD1) - Continued

Prepared: 4/5/2022 Analyzed: 4/5/2022

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Surrogate: 2-Fluorophenol	0.02377		0.150000		15.8	0 - 59			
Surrogate: 4-Terphenyl-d14	0.07253		0.100000		72.5	32 - 116			
Surrogate: Nitrobenzene-d5	0.05098		0.100000		51.0	25 - 101			
Surrogate: Phenol-d6	0.01997		0.150000		13.3	0 - 48			

VISTA ENVIRONMENTAL CONSULTING 4.8°C

Environmental Bulk Sample Log

☐ Sacramento ☐ Oakland ☐ Monterey ☒ Anaheim ☐ San Diego

Client:　Leighton

Site/Location:　March ARB

Sampled By:　Yvan Schmidt

Date:　23 February 2022

Project Number:　21 0210 021

CAC/CSST Number:　N/A

	Sample No.	Sample Description/Location	Container	Sample Time	Analysis
1	O-1	Pole W460, middle transformer	60z 8 oz Pyrex (yes)	0830	EPA 8082
2	W-1	Feed line down Pole W460		0835	↓
3	TW-1	Pole W460		0840-0855	EPA 8270 & EPA 6010B (As/Cu/Cr)
4	TW-2	Security Light Pole near Pole W460			
5	TW-3	Perimeter Light Pole due West of Pole W460		↓	↓
6	O-2	Pole W423, Right Transformer (from road view)		0925	EPA 8082
7	W-2	Feed line down Pole W423		0930	↓
8	TW-4	Pole W423		0925~1010	EPA 8270 & EPA 6010B (As/Cu/Cr)
9	TW-5	Security Light Pole to West of W423			
10	TW-6	Perimeter Light Pole due North of W423	↓	↓	↓

Analytical Method:　PLM　　Turnaround Time:　　Same Day　24hr　48 HR　(5 day)

Data Sent To:　Via E-Mail: andrew.schmidt@vista-env.com　Questions call: **(714) 289-2600**

Special Instructions:　Standard T/A　(Metals of Concern are Arsenic, Copper & Chromium)

CHAIN OF CUSTODY:

1. _Yvan C. Schmidt_ (Signature)　　PM (Title)　　2/23/22 @ 1248 (Inclusive Dates)

2. _Danny L_ (Signature)　　(Title)　　2/23/22 12:48 (Inclusive Dates)

Page　1　of　3

Environmental Bulk Sample Log

VISTA ENVIRONMENTAL CONSULTING

☐ Sacramento   ☐ Oakland   ☐ Monterey   ☒ Anaheim   ☐ San Diego

Client: __Leighton__

Site/Location: __March ARB__

Sampled By: __Yvan Schmidt__

Date: __23 February 2022__

Project Number: __21 0210 021__

CAC/CSST Number: _____

Sample No.		Sample Description/Location	Container	Sample Time	Analysis
11	O-3	Unnumbered Pole 16' East of Pole W406, Left Transformer	6 or 8 oz Pyrex	1020	EPA 8082
12	W-3	Feed Line down pole 10' East of pole W406		1025	↓
13	TW-7	Pole W406		1015-1035	EPA 8270 & EPA 6010B (As/Cu/Cr)
14	TW-8	Security Light Pole 20 yards South of Pole W406			
15	TW-9	Perimeter Light Pole to South of Sally Port			
16	TW-10	Communication Pole South of Building 6, at Sally Port		1045	↓
	E-1	On ground, East of Building 6		1050	EPA 8082 (interior)
	E-2	Building 6, Room 2nd From North, on Floor		1052	
	E-3	Doorway to Room E-2 was collected in.		1055	↓
17	TW-11	Substation NE of Building 2, NW Main Pole		1110	EPA 8270 & EPA 6010B (As/Cu/Cr)

Analytical Method: PLM   **Turnaround Time:** Same Day   24hr   48 HR   ⟨5 day⟩

Data Sent To: **Via E-Mail:** andrew.schmidt@vista-env.com   Questions call: **(714) 289-2600**

Special Instructions: __Standard T/A__

CHAIN OF CUSTODY:

1. _____   PM   2/23/22 1248
   Signature   Title   Inclusive Dates

2. _____   ___   2/23/22 12:48
   Signature   Title   Inclusive Dates

Page __2__ of __3__

Environmental Bulk Sample Log

VISTA ENVIRONMENTAL CONSULTING

☐ Sacramento ☐ Oakland ☐ Monterey ☒ Anaheim ☐ San Diego

Client: Leighton

Date: 23 February 2022

Site/Location: March ARB

Project Number: 21 0210 021

Sampled By: Yvan Schmidt

CAC/CSST Number:

Sample No.	Sample Description/Location	Container	Sample Time	Analysis
TW-K	Substation NE of Building 2, Lumber cross member	6 oz Pyrex	1115	EPA 8270 & EPA 6010B (As/Cu/Cr)
	21 Samples, Total			

Analytical Method: PLM   **Turnaround Time:**   Same Day   24hr   48 HR   ⟨5 day⟩

Data Sent To: **Via E-Mail:** andrew.schmidt@vista-env.com   Questions call: **(714) 289-2600**

Special Instructions: Standard T/A

CHAIN OF CUSTODY:

1. _____[signature]_____ PM _____ 2/23/22 @ 1248 _____
   Signature   Title   Inclusive Dates

2. _____[signature]_____ _____ 2/23/22 12:48 _____
   Signature   Title   Inclusive Dates

Page 3 of 3

From:	Andrew Schmidt <andrew.schmidt@vista-env.com>
Sent:	Monday, April 4, 2022 4:18 PM
To:	Victoria Michel
Subject:	Re: Preliminary Results / March ARB _ 21 0210 021 / 2200224

As per below, 8270 for Pentachlorophenol only. None of the metals levels encountered require TCLP analysis.

Thank you

Sent from my iPhone

On Apr 4, 2022, at 4:04 PM, Victoria Michel <Victoria.Michel@atlglobal.com> wrote:

Good Afternoon Andrew,

For the TCLP Digestion, do you need it for metals or the 8270 Pentachlorophenol?

Please let me know at your earliest convenience.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,

Victoria Michel | Project Assistant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 238 | Fax: 562.989.6348
Laboratory Excellence Defined

1

From: Andrew Schmidt <andrew.schmidt@vista-env.com>
Sent: Monday, April 4, 2022 3:45 PM
To: Victoria Michel <Victoria.Michel@atlglobal.com>
Subject: Re: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Victoria,

Can we please request that you perform additional analysis of Samples TW-3 and TW-9 from this work order? Please perform a TCLP digestion and then re-run EPA Method 8270 for Pentachlorophenol.

If possible, I would like to see this completed on a 72 hour turnaround.

Best regards,

Yvan A. Schmidt
Senior Project Manager
Vista Environmental Consulting, Inc.
(714) 746-7644
andrew.schmidt@vista-env.com

From: Victoria Michel <Victoria.Michel@atlglobal.com>
To: "andrew.schmidt@vista-env.com" <andrew.schmidt@vista-env.com>
Sent: 3/4/2022 4:54 PM
Subject: RE: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Good Evening Andrew,

Please find your results for the above project attached.

Please Note: unless there are scheduled analyses that are pending, or we are otherwise instructed, the samples included in this report will be disposed of after 45 days from the date we received the samples. Any request for storage beyond 45 days will be invoiced at a flat-rate of $2/ sample/ month. For samples that are requested for Extended Hold, an invoice will be provided at the end of each month.

If I can further assist in any way, please let me know.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,

2

Victoria Michel | Project Assisstant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 248 | Fax: 562.989.6348
Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, Oregon (NELAP), and DoD (Mobile Lab, EPA 8260 Modified) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates.

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.

From: Victoria Michel
Sent: Wednesday, March 2, 2022 6:17 PM
To: 'andrew.schmidt@vista-env.com' <andrew.schmidt@vista-env.com>
Subject: Preliminary Results / March ARB _ 21 0210 021 / 2200224

Good Evening Andrew,

Attached are the preliminary results for 2200224.

We're pending final review/approval for 8082.

Please let me know if I can further assist you.

PLEASE NOTE: Our legal name is Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories.

Best regards,

Victoria Michel | Project Assistant
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755 | www.atlglobal.com
Tel: 562.989.4045 ext. 238 | Fax: 562.989.6348
Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, Oregon (NELAP), and DoD (Mobile Lab, EPA 8260

3

March 07, 2022

Andrew Schmidt
Vista Environmental
1054 North Tustin Avenue
Anaheim, CA 92807
Tel: (714) 289-2600
Fax:

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number :   2200266

        Client Reference :   21 0210 021

Enclosed are the results for sample(s) received on March 01, 2022 by Advanced Technology
Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of
custody in accordance with applicable laboratory certifications. The laboratory results contained
in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions,
please feel free to contact me or Project.Management@atlglobal.com.

Sincerely,

Victoria Michel

Victoria Michel, Project Assistant
Victoria.Michel@atlglobal.com
Authorized to Release on 03/07/22 09:42 on Behalf of

Amy Leung
Laboratory Director

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : 21 0210 021

Report To : Andrew Schmidt

Reported : 03/07/2022

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-01	2200266-01	Soil	2/23/22 10:50	3/01/22 12:05
C-02	2200266-02	Soil	2/23/22 10:52	3/01/22 12:05
C-03	2200266-03	Soil	2/23/22 10:55	3/01/22 12:05

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : 21 0210 021
Report To : Andrew Schmidt
Reported : 03/07/2022

Notes and Definitions

ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

Client Sample ID: C-01
Lab ID: 2200266-01

Analyst: KL

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 13:57	
Surrogate: Decachlorobiphenyl	*61.7 %*	*0 - 87*		*B2C0891*	*03/01/2022*	*03/02/22 13:57*	
Surrogate: Tetrachloro-m-xylene	*45.7 %*	*0 - 103*		*B2C0891*	*03/01/2022*	*03/02/22 13:57*	

Certificate of Analysis

Vista Environmental
1054 North Tustin Avenue
Anaheim , CA 92807

Project Number : 21 0210 021

Report To : Andrew Schmidt

Reported : 03/07/2022

Client Sample ID: C-02
Lab ID: 2200266-02

Polychlorinated Biphenyls by EPA 8082

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 14:16	
Surrogate: Decachlorobiphenyl	*49.5 %*	*0 - 87*		*B2C0891*	*03/01/2022*	*03/02/22 14:16*	
Surrogate: Tetrachloro-m-xylene	*38.4 %*	*0 - 103*		*B2C0891*	*03/01/2022*	*03/02/22 14:16*	

Client Sample ID: C-03
Lab ID: 2200266-03

Polychlorinated Biphenyls by EPA 8082

Analyst: KL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1221	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1232	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1242	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1248	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1254	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Aroclor 1260	ND	240	1	B2C0891	03/01/2022	03/02/22 14:36	
Surrogate: Decachlorobiphenyl	*60.3 %*	*0 - 87*		*B2C0891*	*03/01/2022*	*03/02/22 14:36*	
Surrogate: Tetrachloro-m-xylene	*50.5 %*	*0 - 103*		*B2C0891*	*03/01/2022*	*03/02/22 14:36*	

Certificate of Analysis

Vista Environmental

1054 North Tustin Avenue

Anaheim , CA 92807

Project Number : 21 0210 021

Report To : Andrew Schmidt

Reported : 03/07/2022

QUALITY CONTROL SECTION

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2C0891 - GCSEMI_PCB/PEST_S										
Blank (B2C0891-BLK1)							Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	ND	16	1.9							
Aroclor 1221	ND	16	1.9							
Aroclor 1232	ND	16	1.9							
Aroclor 1242	ND	16	1.9							
Aroclor 1248	ND	16	1.9							
Aroclor 1254	ND	16	1.9							
Aroclor 1260	ND	16	1.9							
Surrogate: Decachlorobiphenyl	*11.58*			*16.6667*		*69.5*	*0 - 87*			
Surrogate: Terrachloro-m-xylene	*9.992*			*16.6667*		*60.0*	*0 - 103*			
LCS (B2C0891-BS1)							Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	96.5530	16	1.9	166.667		57.9	11 - 108			
Aroclor 1260	120.547	16	1.9	166.667		72.3	19 - 112			
Surrogate: Decachlorobiphenyl	*11.19*			*16.6667*		*67.2*	*0 - 87*			
Surrogate: Terrachloro-m-xylene	*9.845*			*16.6667*		*59.1*	*0 - 103*			
Matrix Spike (B2C0891-MS1)			**Source: 2200270-01**				Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	92.5520	16	1.9	166.667	ND	55.5	0 - 135			
Aroclor 1260	106.704	16	1.9	166.667	3.46950	61.9	0 - 127			
Surrogate: Decachlorobiphenyl	*10.39*			*16.6667*		*62.3*	*0 - 87*			
Surrogate: Terrachloro-m-xylene	*10.30*			*16.6667*		*61.8*	*0 - 103*			
Matrix Spike Dup (B2C0891-MSD1)			**Source: 2200270-01**				Prepared: 3/1/2022 Analyzed: 3/2/2022			
Aroclor 1016	97.2793	16	1.9	166.667	ND	58.4	0 - 135	4.98	20	
Aroclor 1260	106.016	16	1.9	166.667	3.46950	61.5	0 - 127	0.647	20	
Surrogate: Decachlorobiphenyl	*10.22*			*16.6667*		*61.3*	*0 - 87*			
Surrogate: Terrachloro-m-xylene	*10.15*			*16.6667*		*60.9*	*0 - 103*			

2200266

Environmental Bulk Sample Log

VISTA ENVIRONMENTAL CONSULTING

☐ Sacramento   ☐ Oakland   ☐ Monterey   ☒ Anaheim   ☐ San Diego

Client:___Leighton___

Site/Location:___March ARB___

Sampled By:___Yvan Schmidt___

Date:___23 February 2022___

Project Number:___21 0210 021___

CAC/CSST Number:_____

Sample No.	Sample Description/Location	Container	Sample Time	Analysis
1 C-01	Capacitor Guts, collected on ground East of Building C	4 oz flyer	1050	EPA 8082
2 C-02	Capacitor Guts, collected from ground in 2nd Room from North		1052	
3 C-03	Capacitor Guts, from doorway to 2nd Room from North		1055	
	3 Samples			

Analytical Method: PLM   **Turnaround Time:**   Same Day   24hr   48 HR   (5 day)

Data Sent To: **Via E-Mail:** andrew.schmidt@vista-env.com   Questions call: **(714) 289-2600**

Special Instructions:_____

CHAIN OF CUSTODY:

1. _____   PM   2/23/22 ~ 3/1/22 @ 1205
Signature   Title   Inclusive Dates

2. _____   ATL   3/1/22   12:05
Signature   Title   Inclusive Dates

Page___1___of___1___

ATTACHMENT B -

LABORATORY CERTIFICATIONS

Appendix C: CA-ELAP Certificate

Interim

CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Advanced Technology Laboratories

3275 Walnut Avenue

Signal Hill, CA 90755

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection,
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1838**

Expiration Date: **12/31/2021**

Effective Date: **1/1/2021**

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Appendix C: NELAP Certificate

ORELAP

Oregon Environmental Laboratory Accreditation Program

NELAP Recognized

Advanced Technology Laboratories

CA300003

3275/3291 Walnut Ave. & 1418 E.33rd St.

Signal Hill, CA 90755

IS GRANTED APPROVAL BY ORELAP UNDER THE 2016 TNI STANDARDS, TO PERFORM ANALYSES ON ENVIRONMENTAL SAMPLES IN MATRICES AS LISTED BELOW :

Air	Drinking Water	Non-Potable Water	Solids and Chemical Waste	Tissue
Chemistry	Chemistry	Chemistry	Chemistry	

AND AS RECORDED IN THE LIST OF APPROVED ANALYTES, METHODS, ANALYTICAL TECHNIQUES, AND FIELDS OF TESTING ISSUED CONCURRENTLY WITH THIS CERTIFICATE AND REVISED AS NECESSARY.

ACCREDITED STATUS DEPENDS ON SUCCESSFUL ONGOING PARTICIPATION IN THE PROGRAM AND CONTINUED COMPLIANCE WITH THE STANDARDS.

CUSTOMERS ARE URGED TO VERIFY THE LABORATORY'S CURRENT ACCREDITATION STATUS IN OREGON.

Travis Bartholomew
Oregon State Public Health Laboratory
ORELAP Program Manager
7202 NE Evergreen Parkway, Suite 100
Hillsboro, OR 97124

EFFECTIVE DATE : 1/30/2021
EXPIRATION DATE : 1/29/2022
Certificate No : CA300003 - 013

Appendix C: Accreditations

25

Appendix C: DBE Certificate – Caltrans / CUCP

CALIFORNIA UNIFIED CERTIFICATION PROGRAM
DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATE

ADVANCED TECHNOLOGY LABORATORIES

3275 WALNUT AVENUE
SIGNAL HILL, CA 90755

Owner: EDGAR CABALLERO
Business Structure: CORPORATION

This certificate acknowledges that said firm is approved by the California Unified Certification Program (CUCP) as a Disadvantaged Business Enterprise (DBE) as defined by the U.S. Department of Transportation (DOT) CFR 49 Part 26, as may be amended, for the following NAICS codes:

NAICS Code(s) * Indicates primary NAICS code

* 541380 Testing Laboratories

Work Category Code(s)

I8730   RESEARCH & TESTING SERVICES   I8734   LABORATORY TESTING AND ANALYSIS

Licenses

UNIFIED CERTIFICATION PROGRAM

CERTIFYING AGENCY:
DEPARTMENT OF TRANSPORTATION
1823 14TH STREET
SACRAMENTO, CA 95811 0000
(916) 324-1700

UCP Firm Number :   20968
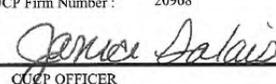
CUCP OFFICER   April 8, 2011

CALIFORNIA UNIFIED
CERTIFICATION PROGRAM (CUCP)

DEPARTMENT OF TRANSPORTATION
CIVIL RIGHTS
1823 - 14ᵗʰ STREET, MS-79
SACRAMENTO, CA   95814

Phone (916) 324-1700
Free   (866) 810-6346
Fax   (916) 324-1862
TTY   (916) 324-2252

County codes as defined by Caltrans are listed below. If you wish to work anywhere in the State you may use the Statewide (SW) code.

SW STATEWIDE
   (ALL COUNTIES)

01 ALAMEDA	21 MARIN	41 SAN MATEO
02 ALPINE	22 MARIPOSA	42 SANTA BARBARA
03 AMADOR	23 MENDOCINO	43 SANTA CLARA
04 BUTTE	24 MERCED	44 SANTA CRUZ
05 CALAVERAS	25 MODOC	45 SHASTA
06 COLUSA	26 MONO	46 SIERRA
07 CONTRA COSTA	27 MONTEREY	47 SISKIYOU
08 DEL NORTE	28 NAPA	48 SOLANO
09 EL DORADO	29 NEVADA	49 SONOMA
10 FRESNO	30 ORANGE	50 STANISLAUS
11 GLENN	31 PLACER	51 SUTTER
12 HUMBOLDT	32 PLUMAS	52 TEHAMA
13 IMPERIAL	33 RIVERSIDE	53 TRINITY
14 INYO	34 SACRAMENTO	54 TULARE
15 KERN	35 SAN BENITO	55 TUOLUMNE
17 LAKE	36 SAN BERNARDINO	56 VENTURA
16 KINGS	37 SAN DIEGO	57 YOLO
18 LASSEN	38 SAN FRANCISCO	58 YUBA
19 LOS ANGELES	39 SAN JOAQUIN	
20 MADERA	40 SAN LUIS OBISPO	

Sincerely,

RITA A. NELSON, Chief
Office of Certification

28

SUPPLIER CLEARINGHOUSE
CERTIFICATE OF ELIGIBILITY

CERTIFICATION EXPIRATION DATE: **October 16, 2021**

The Supplier Clearinghouse for the Utility Supplier Diversity Program of the California Public Utilities Commission hereby certifies that it has audited and verified the eligibility of:

Environmental Treatment and Technology, Inc. DBA Advanced Technology Laboratories

Minority Business Enterprise (MBE)

pursuant to Commission General Order 156, and the terms and conditions stipulated in the Verification Application Package. This Certificate shall be valid only with the Clearinghouse seal affixed hereto.

Eligibility must be maintained at all times, and renewed within 30 days of any changes in ownership or control. Failure to comply may result in a denial of eligibility. The Clearinghouse may reconsider certification if it is determined that such status was obtained by false, misleading or incorrect information. Decertification may occur if any verification criterion under which eligibility was awarded later becomes invalid due to Commission ruling. The Clearinghouse may request additional information or conduct on- site visits during the term of verification to verify eligibility.

This certification is valid only for the period that the above firm remains eligible as determined by the Clearinghouse. Utility companies may direct inquiries concerning this Certificate to the Clearinghouse at (800) 359-7998 in Los Angeles.

VON: 94BS0056

DETERMINATION DATE: *October 16, 2018*

Appendix C: SBE Certificate – Metro

Ⓜ Metro

Los Angeles County
Metropolitan Transportation Authority

One Gateway Plaza
Los Angeles, CA 90012-2952

213.922.2000 Tel
metro.net

April 27, 2018

Metro File #7762

Mr. EDGAR CABALLERO
Environmental Treatment and Technology, Inc. DBA Advanced Technology Laboratories
P.O. BOX 92797
LONG BEACH, CA 90809

Subject: Small Business Enterprise Certification

Dear Mr. EDGAR CABALLERO:

We are pleased to advise you that after careful review of your application and supporting documentation, the Los Angeles County Metropolitan Transportation Authority (Metro) has determined that your firm meets the eligibility standards to be certified as a Small Business Enterprise (SBE) as required under Metro's SBE Program. Your firm will be listed in Metro's SBE database of certified SBEs under the following specific areas of expertise:

NAICS 541380: TESTING LABORATORIES
NAICS 562910: REMEDIATION SERVICES

Your SBE certification is valid for five years from the date of this letter and applies only for the above NAICS code(s). Any additions and revisions must be submitted to Metro for review and approval.

In order to ensure your continuing SBE status, you are required to submit an annual update along with supporting documentation. If no changes are noted, then your SBE status remains current. If there are changes, Metro will review to determine continued SBE eligibility. Please note, your SBE status remains in effect unless Metro notifies you otherwise.

After the five-year certification period, your entire file will be reviewed in order to ascertain continued SBE certification status. You will be notified of the pending SBE status review and any documentation updates necessary prior to the expiration date.

Also, should any changes occur that could affect your certification status prior to receipt of the annual update application, such as changes in your firm's name, business/mailing address, ownership, management or control, or failure to meet the applicable business size standards or personal net worth standard, please notify Metro immediately.

Metro reserves the right to withdraw this certification if at any time it is determined that it was knowingly obtained by false, misleading, or incorrect information. Your SBE certification is subject to review at any time. The firm thereby consents to the examination of its books, records, and documents by Metro.

Congratulations, and thank you for your interest in Metro's SBE Program. Should you have any questions, please contact us at (213) 922-2600. For information on Metro contracting opportunities, please visit our website at www.metro.net.

Sincerely,

Shirley Wong
Sr. Certification Officer
Diversity & Economic Opportunity Department

Appendix C: Accreditations

Appendix C: SBE Certificate – California Dept. of General Services

Printed on: 7/16/2020 1:09:41 PM

To verify most current certification status go to: https://www.caleprocure.ca.gov

DGS
CALIFORNIA DEPARTMENT OF
GENERAL SERVICES

Office of Small Business & DVBE Services

Certification ID: 61086

Legal Business Name:
ENVIRONMENTAL TREATMENT &
TECHNOLOGY INC

Doing Business As (DBA) Name 1:
ADVANCED TECHNOLOGY LABORATORIES

Doing Business As (DBA) Name 2:

Address:
3275 WALNUT AVENUE
SIGNAL HILL
CA 90755

Email Address:
christine.caballero@atlglobal.com

Business Web Page:
http://www.atlglobal.com

Business Phone Number:
562/989-4045

Business Fax Number:
562/989-6348

Business Types:
Service

Certification Type	Status	From	To
SB(Micro)	Approved	07/15/2020	07/31/2022
SB-PW	Approved	07/16/2020	07/31/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!
-LOG IN at CaleProcure.CA.GOV

Questions?
Email: OSDSHELP@DGS.CA.GOV
Call OSDS Main Number: 916-375-4940
707 3rd Street, 1-400, West Sacramento, CA 95605

November 3, 2023

Project No. 13226.005

Meridian Park West, LLC
1156 North Mountain Avenue
Upland, California 91786

Attention: Timothy Reeves / Adam Collier

Subject: **PCB Issues**
Meridian – West Campus Upper Plateau
Riverside, California 92508

Upon your request and in connection with the comments received on the Draft Environmental Impact Report, Leighton Consulting, Inc. (Leighton) is presenting the following supplemental summary information regarding environmental assessments associated with the subject Site and nearby areas (see Site Location Map – **Figure 1**).

Polychlorinated Biphenyls (PCB) Issues

Further clarifications on PCB sampling issues have been provided by Vista Environmental Consulting (Vista), a subconsultant which completed such work on the Specific Plan site. This additional information is provided in a letter from Vista found in **Attachment A**.

References

Leighton (Leighton Consulting, Inc.), 2022, Hazardous Material (PCB/ Treated Wood Waste) Investigation Report, Meridian – West Campus Upper Plateau, Riverside, CA 92508, dated May 5, 2022 (report contains Hazardous Materials Investigation Results Report, dated April 26, 2022 by Vista Environmental Consulting).

OSHA, 2023, OSHA Salt Lake Technical Center, Guideline for Developing Sampling and Analytical Methods with Validation Requirements, Version 1.0, dated April 28th, 2023.

Should you have any questions regarding this supplemental report, please contact the undersigned at (909) 527-8782.

Respectfully submitted,
LEIGHTON CONSULTING, INC.
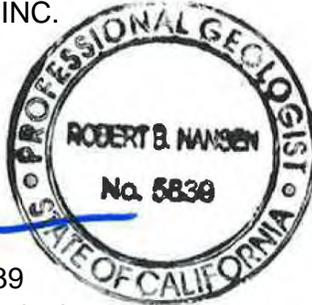
Robert B. Hansen, PG, #5839
Associate Environmental Geologist

Attachments: Figure 1 - Site Location Map
Attachment A - Vista Environmental Consulting Letter

Distribution: Addressee
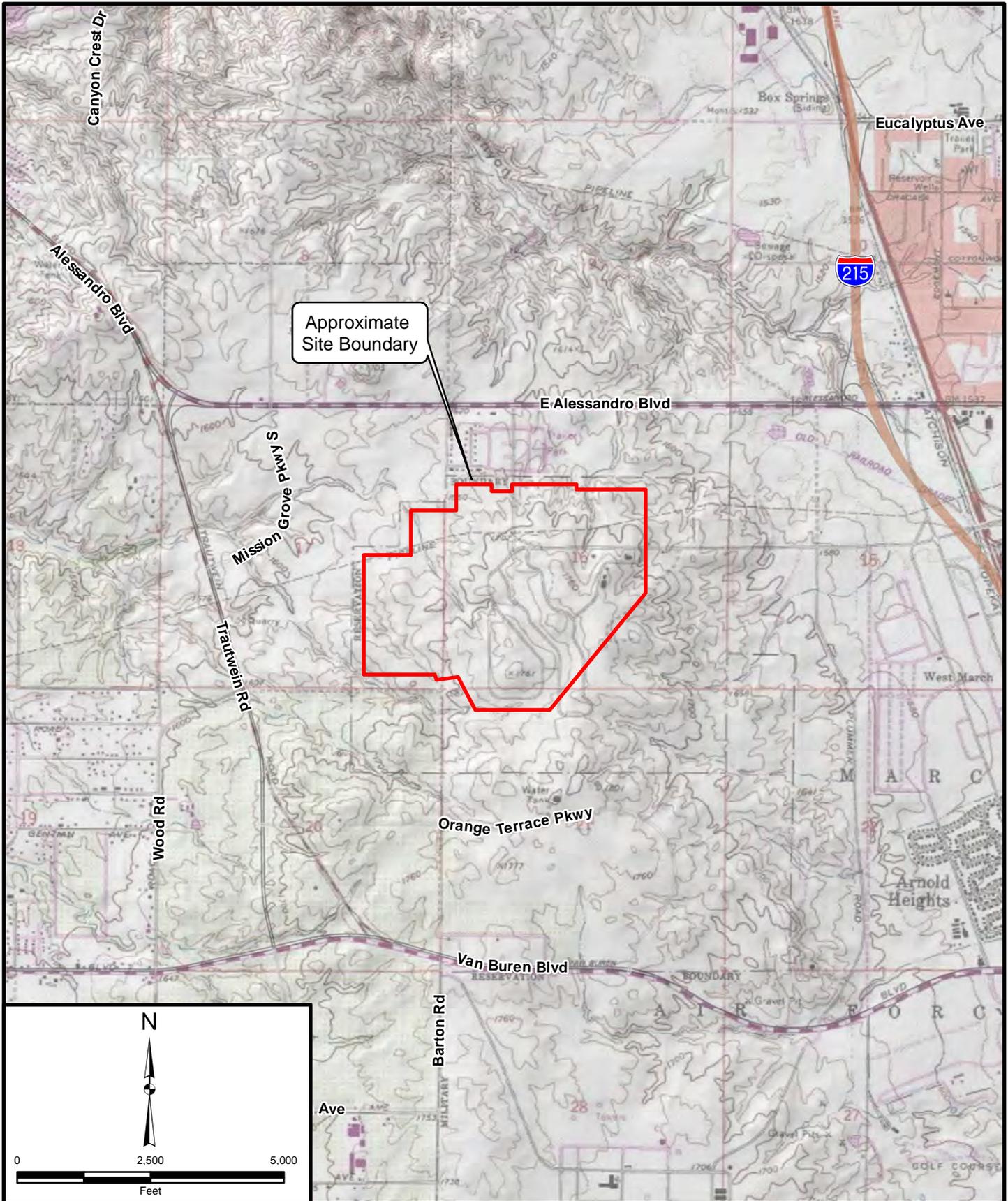
Approximate
Site Boundary
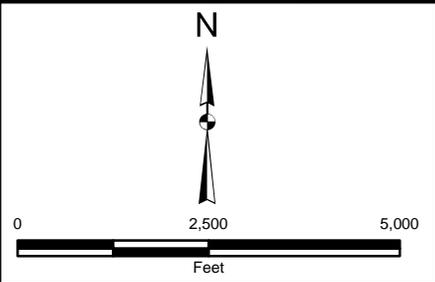
Project: 13226.003	Eng/Geol: RBH	SITE LOCATION MAP	FIGURE 1
Scale:1 " = 2,500 '	Date: May 2022	Meridian-West Campus, Upper Plateau	
Basemap: ESRI ArcGIS Online 2022		Riverside, California	Leighton

ATTACHMENT A

VISTA ENVIRONMENTAL CONSULTING LETTER

August 28, 2023

Robert Hansen
Associate Environmental Geologist
Leighton Consulting, Inc.
10532 Acacia Street, Suite B-6
Rancho Cucamonga, CA 91730

Subject: **PCB Sampling – Response to Public Comments**
**March Air Force Base, Former Ordnance Storage Area / Weapons Storage
Area, Riverside, CA.**

Per your request, the following further clarification is provided in response to your email inquiry
regarding Polychlorinated Biphenyl (PCB) Sampling.

Vista has previously provided the following response to a public comments on PCB sampling:

> *While Mr. Zhao's comments concerning the collection of concrete samples and even soil
> samples beneath the concrete would be correct, if there were PCBs identified at the site,
> the standard he is referring to addresses situations where it is known or expected that PCBs
> were present, such as when you are assessing the leakage of oil from a transformer that
> had been previously tested and determined to contain PCBs. In fact, while it is true that
> some fraction of PCBs would leach into the concrete, PCBs are very large molecules, and
> a significant fraction of any PCBs would remain on the surface, with the visible
> staining. Wipe sampling is an accurate method for determining if PCBs are present. Had
> any detectable levels of PCBs been identified in any of the wipe samples that were
> collected, Vista would have recommended follow-on delineation sampling of the concrete
> or other substrate, but the complete absence of PCBs in the wipe samples collected
> indicated that this step was unnecessary.*

As a supplement to our above comments, the following is further provided:

The OSHA Guidelines for Developing Sampling and Analytical Methods outlines the types
of sampling recommended for determining the potential for exposure to chemical
hazards. Bulk sampling isn't even recommended, but rather air sampling and surface
(wipe) sampling are the two recommended methods. Bulk sampling usually isn't
recommended until there is a known or suspected exposure, and bulk sampling is the
recommended follow-up testing (OSHA, 2023 – page 5). Industry-wide, the sole usual
exception to this guideline is asbestos.

The public comments, as well as the guidelines for PCB testing that were submitted as
concerns in the public comments, are for instances where there is a reason to anticipate that
PCBs have been released, such as visible indications or the known release of suspect PCB-
containing dielectric fluid known to or suspected of containing PCBs at 50 mg/kg or
greater. There was no such issue at the site. In fact, we collected a total of 6 wipe samples,
3 transformer oil samples, three electrical wrap samples and three capacitor samples, and

of all those samples, one transformer had a hit for Aroclors at 1.5 mg/kg, and all of the other 14 samples of various types indicated no PCBs at all (Leighton, 2022)

Simply put, there was no reason to collect bulk samples of concrete pads. In the event that there had been ANY PCBs in the various materials that we wipe sampled, there would have been at least some indication in the wipe samples collected from the subject surface, and even the OSHA guideline would have recommended not performing follow-on sampling, based on the lack of PCBs in the various testings performed. The testing requirements set forth in 40 CFR 761 would not apply, based on the fact that there was not even one sample indicating PCBs at a concentration of 50 mg/kg or greater.

The below public comment was also provided:

Unlike releases of motor oils that are relatively easy to identify in soils based on visual staining and odors, PCB-containing oils from transformers are typically clear to yellow in color and odorless. In other words, a release of transformer oil cannot always easily be identified based on inspection of the surrounding soils, particularly if the release occurred years ago.

Our response to the above comment is as follows:

Regarding the color of PCBs, dielectric fluids are almost never clear. Rather, 95%+ of PCB-containing dielectric fluids are either yellow (Monsanto products) or Amber (Pyranol products). If/when released due to transformer or capacitor failure, the fluids tend to be darker, ranging from brown to black, due to thermal effects of overheating, the most common failure that causes uncontrolled releases. As with the issue of wipe sampling versus bulk sampling when dealing with concrete surfaces, the question/comment pre-supposes that there is a PCB Product present that contains/contained PCBs at concentrations of 50 mg/kg or greater. Sampling was performed of transformers, capacitors and other potential PCB-containing products and surfaces, and as noted above, other than one sample of transformer oil that indicated the presence of an Aroclor at 1.5 mg/kg, every other one of 14 samples collected for PCB content determination indicated that there was no PCBs present at all.

References

Leighton (Leighton Consulting, Inc.), 2022, Hazardous Material (PCB/ Treated Wood Waste) Investigation Report, Meridian – West Campus Upper Plateau, Riverside, CA 92508, dated May 5, 2022. (report contains Hazardous Materials Investigation Results Report, dated April 26, 2022 by Vista Environmental Consulting)

OSHA, 2023, OSHA Salt Lake Technical Center, Guideline for Developing Sampling and Analytical Methods with Validation Requirements, Version 1.0, dated April 28th, 2023.

If you should have any questions regarding this matter, or if I can be of further assistance, please feel free to contact me on my mobile at 714.746.7644.

Respectfully submitted,
Vista Environmental Consulting

Yvan A. Schmidt
Senior Project Manager

March Business Center Specific Plan Project				
Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
LAND USE AND PLANNING				
▪ All development within the Clear Zone and Accident Potential Zones I and II will abide by building standards and codes, including height restrictions, restrictions on use, setbacks, population densities, insulation and materials, as outlined in the approved 1998 Air Installation Compatible Use Zone (AICUZ).	Master Developer	Prior to the issuance of any building permits	▪ Review of plans to ensure that applicable codes and regulations are incorporated.	March JPA
▪ The Project will comply with the policies and requirements of the Riverside County Airport Land Use Plan. Development plans will be submitted to the FAA for review in accordance with FAR §77.13.2.i. Additional ALUC review will be required for objects taller than 50 feet in the Height Caution Zone.	Master Developer	Prior to the issuance of any building permits	▪ Review of site plans	▪ FAA ▪ ALUC
▪ Prohibited uses, as outlined in the Specific Plan can not be within the established school buffer overlay district.	Master Developer	Prior to the issuance of any building permits	▪ Review of plans and specifications	March JPA
▪ Project detention basins shall have the following features to limit bird activity: 1. The basin shall drain within approximately six hours to reduce the potential for plant growth 2. Regular maintenance activities shall include the removal of vegetation, with the exception of lot 49 3. Detention basins shall be monitored regularly to determine if they attract waterfowl or other birds 4. A plan to discourage bird activity shall be implemented if the basins are found to be an attraction to birds	Master Developer	▪ Prior to issuance of grading permits ▪ Scheduled Inspection	▪ Review of plans and specifications ▪ Scheduled Inspections	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
TRANSPORTATION/TRAFFIC				
The subdivider pay its fair share contribution towards the following improvements: • Alessandro Boulevard/Trautwein Road: add one westbound through lane and one eastbound through lane • Alessandro Boulevard/I-215 northbound: provide one additional eastbound left turn lane • Cactus Avenue/I-215 northbound: restripe one eastbound through lane to provide a left turn lane and restripe one westbound through lane to provide a right turn lane • Van Buren Boulevard/Trautwein Road: add one westbound left and one westbound through lane	Master Developer	Prior to the recordation of the Final Map for the first unit of Phase 3 of the Specific Plan	• Confirmation of fair share payment or review of plans and specifications.	March JPA
Construct/assure[1] the following phase 1 transportation improvements: • Construct internal streets in Phase 1 • Improve Alessandro/Sycamore Canyon Boulevard/Street Z intersection • Widen Cactus Avenue RR Bridge (needed at 12,000 project trips) • Improve Cactus Avenue/I-215 SB ramps (needed at 12,000 project trips) To the extent that such improvements provide capacity benefits for local or regional (i.e., non-project) demand, the project is eligible for credits toward its contribution toward local and/or regional transportation impact fees, if any.	Master Developer	• Prior to the recordation of Phase 2 Final Maps • During Construction	• Review of plans and specifications • Construction Inspection	March JPA

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[1] The "assurance" of a transportation improvement is defined in the Tentative Map Conditions of Approval

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
Construct/assure[1] the following phase 2 transportation improvements: • Construct internal streets in Phase 2 • Widen Van Buren Blvd. to seven through lanes (4 westbound/3 eastbound) between I-215 and Brown Street • Widen Van Buren Blvd. to six through lanes between Brown Street and the western edge of Phase 2 • Improve Van Buren Blvd./I-215 interchange • Provide/modify signal control at Van Buren Blvd/Street Z • Provide signal control at Van Buren Blvd/Street "C" To the extent that such improvements provide capacity benefits for local or regional (i.e., non-project) demand, the project is eligible for credits toward its contribution toward local and/or regional transportation impact fees, if any.	Master Developer	• Prior to the recordation of Phase 3 Final Maps • During Construction	• Review of plans and specifications • Construction Inspection	March JPA
Construct/assure[1] the following phase 3 transportation improvements: • Construct internal streets in Phase 3 • Half-width improvements on Barton Street (project frontage) • Provide/modify signal control at Van Buren Blvd/Village West Drive • Modify traffic signal at Orange Terrace Pkwy/Van Buren Blvd • Provide signal control at Van Buren	Master Developer	• For Lurin/ Barton traffic signal, prior to the issuance of the certificate of occupancy for the first building that exceeds the level of 4.0 million square feet in Phase 3. • For all other	• Review of plans and specifications • Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
Blvd/Coyote Bush Road ▪ Modify traffic signal at Van Buren Blvd/Barton Street ▪ Provide signal control at Barton Street/Krameria Ave. ▪ Provide signal control at Barton Street/Lurin Ave. ▪ Extend Krameria Avenue to west (by others) ▪ Widen Van Buren Blvd. to provide six through lanes from the west edge of Phase 2 to Barton Street To the extent that such improvements provide capacity benefits for local or regional (i.e., non-project) demand, the project is eligible for credits toward its contribution toward local and/or regional transportation impact fees, if any.		improvements, prior to the issuance of the certificate of occupancy for the first building that exceeds the level of 2.0 million square feet in Phase 3. ▪ During construction		
▪ Traffic volumes shall be monitored periodically to assure that the transportation infrastructure provides sufficient capacity to serve project volumes. Traffic monitoring shall occur at a minimum of five-year intervals.	Master Developer	Update every five years and at intermittent periods when traffic thresholds are achieved.	▪ Review of traffic study update	March JPA
▪ Accommodate a future multi-modal transportation center by RCTC in the North Campus, north of Cactus Avenue and south of Alessandro Boulevard	Master Developer	Within 5 years of Specific Plan approval	▪ March JPA formal coordination with RCTC	March JPA
▪ Provide site plan parking ratios as defined in the Specific Plan that limit the need for on-street parking	Site Developer	Site plan review of each lot	▪ Review of plans and specifications	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
• Provide bicycle facilities that accommodate non-motorized circulation on the site and connect to routes in the Cities of Riverside and Moreno Valley	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	• Review of plans and specifications • Construction Inspection	March JPA
• Provide truck routes on internal roadways to limit impacts of trucks on adjacent residential communities	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	• Review of plans and specifications • Construction Inspection	March JPA
• Construct all internal roadways in accordance with the *County Road Improvement Standards and Specifications* with additional landscaping as identified in the Riverside County Integrated Project (RCIP).	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	• Review of plans and specifications • Construction Inspection	March JPA
• Collaborate with adjacent jurisdictions and agencies to facilitate improvements addressing the existing deficiency at the I-215/Van Buren Boulevard interchange.	March JPA	Prior to the issuance of the first certificate of occupancy for each phase	• Preparation and review of a Caltrans Project Study Report	March JPA
• Implement the Transportation Demand Management (TDM) strategies to shift trips outside the standard commuting hours and/or to non-"drive alone" modes of travel. This is accomplished through various employer-initiated measures, such as flexible working hours, encouragement of carpooling, and facilitating access for non-motorized (i.e., bicycling or walking) modes of travel.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	• Review of Master Developer/RCTC/MJPA implementation agreement	March JPA
• Cooperate with the Riverside Transportation Agency (RTA) for the provision of bus service within the Specific Plan Area	March JPA	Prior to the issuance of the first certificate of occupancy for each phase	• Review of plans and specifications • Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Signage shall be provided at the Van Buren Boulevard intersections with Coyote Bush Road and Orange Terrace to discourage truck traffic on residential streets in the Orangecrest Development. Furthermore, the March JPA, as a responsible party, shall encourage the City of Riverside and Riverside County to review and consider appropriate legislation to eliminate or curtail truck traffic, exempting local deliveries, on Alessandro Boulevard and Van Buren Boulevard west of the March Business Center Development.	▪ Master Developer ▪ March JPA	Prior to the issuance of the first certificate of phase 1	▪ Review of plans and specifications ▪ Construction Inspection	March JPA
AIR QUALITY				
▪ Implement the Transportation Demand Management (TDM), which will encourage the following: • Preferential parking spaces shall be offered to car pools and van pools. • Employers shall implement a compressed workweek schedule when feasible. • Employers with 250 employees or more shall develop a trip reduction plan to increase vehicle occupancy. • Employers shall provide on-site child care facilities when feasible. • Design elements shall be designed to reduce vehicle queuing when entering and exiting parking structures. • Projects shall provide for video conferencing facilities to the extent possible.	Master Developer	▪ Prior to the recordation of the first Final Map ▪ Site plan review	▪ Review of TDM plan ▪ Review of plans and specifications.	▪ RCTC ▪ March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
• Businesses shall minimize the use of fleet vehicles during smog alerts, and encourage the use of alternative fuel vehicles. • Buildings shall be designed to reduce energy usage by utilizing solar or low emissions water heaters, double paned glass windows, using light colored roofing materials, using skylights in warehouses, orienting buildings north to the extent practical, and increasing wall and attic installation above Title 24 requirements.				
▪ CEQA Review of stationary source emissions other than natural gas and electricity shall be done on all projects with the possibility of emitting air pollutants. In addition, all projects involving stationary source emissions shall obtain permits to construct and operate from the SCAQMD.	Site Developer	Site plan review	▪ Proposed facility permitting process	South Coast Air Quality Management District March JPA
▪ Cover or maintain at least two feet of freeboard for trucks hauling dirt, sand, gravel or in accordance with Section 23114 of the California Vehicle Code.	Contractor	During construction	▪ Construction Inspection	March JPA
▪ Pave construction access roads to the main roads to avoid dirt being carried on to the roadway.	Contractor	Prior to grading within any final map area	▪ Construction Inspection	March JPA
▪ Appoint a construction relations officer to act as a community liaison to oversee on-site construction activity and all emissions and congestion related matters.	Master Developer	Prior to grading within any final map area	▪ Confirm construction relations officer is in place prior to grading	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
• Restrict idling emission from trucks by using auxiliary power units and electrification at the industrial warehouse facilities.	Site Developer	After construction	• Incorporate into project plans and specifications; ongoing during life of the project.	March JPA
• Landscape with appropriate drought-tolerant species to reduce water consumption.	Master Developer Site	Ongoing during the life of the project	• Review of plans and specifications • Construction Inspection	March JPA
BIOLOGICAL RESOURCES				
• Mitigate 35.2 acres of impacted occupied Stephens' kangaroo rat (SKR) habitat. As of September 2002, the March JPA is responsible for 14.2 acres of mitigation at a 1:1 ratio, as 21 acres of USFWS approved occupied habitat have previously been acquired by the March JPA and serves as mitigation for 21 acres of SKR occupied habitat.	March JPA	Prior to the recordation of the Phase 2 Final Map under the Specific Plan	• Provide evidence of mitigation land acquisition	March JPA
• Mitigate for (78.4 acres discussed in the 1999 BO Clarification letter at a fee of $500 per acre.	Master Developer	Prior to the recordation of the first Final Map under the Specific Plan	• Provide confirmation of payment to Riverside County Habitat Conservation Authority.	March JPA
• Avoid 13 acres of USFWS designated as least Bell's vireo riparian habitat north and south of Van Buren Boulevard by utilizing 100-foot buffer zones in these areas.	Master Developer	Prior to the recordation of any Final Map under the Specific Plan	• Review of plans and specifications • Construction Inspection	March JPA
• No construction activities shall occur during the nesting/breeding season until a qualified biologist has conducted a field review of the affected areas for occupancy by the least bell's vireo.	Master Developer	Prior to the recordation of a Final Map within Phase 3 of the Specific Plan	• Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Obtain a 404 permit from the Army Corps of Engineers, prior to activity within the boundaries of waters of the U.S to assure conformance with requirements of Section 404 of the Clean Water Act.	March JPA	Prior to the recordation of any Final Map under the Specific Plan	▪ Obtain 404 application and permit issuance.	ACOE
▪ Obtain a 401 permit from the Santa Ana Regional Water Quality Control Board, prior to construction activity to assure conformance with the requirements of Section 404/401 of the Clean Water Act and the State of California Porter Cologne Water Quality Control Act.	March JPA	Prior to the recordation of the first Final Map under the Specific Plan	▪ Obtain 401 application and permit issuance.	RWQCB
▪ Obtain a 1601-streambed alteration agreement from the California Department of Fish and Game (Eastern Sierra and Inland Desert Region 6), prior to activity within waters of the U.S to assure conformance with the Lake and Streambed Alteration permit requirements.	March JPA	Prior to the recordation of the first Final Map under the Specific Plan	▪ Obtain 1601 application and permit issuance.	CDFG
HAZARDS AND HAZARDOUS MATERIALS				
▪ Project facilities located within one-quarter mile of an existing school shall not store, handle or use toxic or highly toxic gases as defined in the most currently adopted County fire code at quantities that exceed exempt amount as defined in the most currently adopted fire code.	Lot Developer	Prior to the issuance of any building permits under the Specific Plan	▪ Review of plans to ensure that applicable codes and regulations are incorporated.	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Facilities that store, handle or use regulated substances as defined in the California Health and Safety Code 25532 (g) in excess of threshold quantities shall prepare risk management plans for determination of risks to the community. If in the event the RMP shows that the facility stores, handles or uses regulated substances in excess of the thresholds described above, the activity will be prohibited.	Site Developer	Prior to the issuance of any building permits under the Specific Plan	▪ Review of plans and specifications by County Fire Marshall	County of Riverside Fire Marshall
HYDROLOGY/WATER QUALITY				
▪ Construct detention basins and improvements to the storm drain system for the final map area to reduce peak flows to less than those associated with existing conditions in accordance with the approved Drainage Plan.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications ▪ Construction Inspection	March JPA
▪ Construct sediment basins near inlets to the storm drain system to intercept sediment in accessible areas where maintenance is practical.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications	March JPA
▪ Activities requiring authorization under an NPDES permit shall not be conducted prior to authorization by the Santa Ana Regional Water Quality Control Board. Best management practices identified in the Storm Water Pollution Prevention Plan shall be implemented.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications ▪ Construction Inspection	RWQCB March JPA
UTILITIES AND SERVICE SYSTEMS				
▪ Construct the storm drain and flood control facilities for each final map area, in accordance with the approved March Business Center Drainage Plan and Plan for March JPA Planning Area.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans to ensure that applicable codes and regulations are incorporated ▪ Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Construct all storm drain and flood control facilities to the satisfaction of the March JPA engineer.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications	March JPA
▪ All storm drain and flood control facilities shall be approved and operational prior to the issuance of certificates of occupancy for the associated development.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Construction Inspection	March JPA
▪ Green waste generated by the project should be kept separate from other waste types in order that it can be recycled through the practice of grass recycling (where lawn clippings from a mulching type mower are left on the lawn) or onsite composting or directed to local wood grinding and/or composting operations.	▪ Master Developer ▪ Lot Developer	Prior to the recordation of each final map and issuance of site development permits	▪ Construction Inspection	Contractor
▪ Use mulch and/or compost in the development and maintenance of landscape areas	▪ Master Developer ▪ Lot Developer	Prior to the recordation of each final map and issuance of site development permits	▪ Review of plans and specifications ▪ Review of contracts for maintenance of public landscape areas	March JPA
▪ Minimize and/or divert from landfill disposal construction and demolition waste by the use of onsite grinders or by directing the materials to recycling facilities.	▪ Master Developer ▪ Contractor ▪ Lot Developer	Prior to the recordation of each final map and issuance of site development permits	▪ Construction Inspection	March JPA
▪ Prepare a Recyclables Collection and Loading Area plot plan	Lot Developer	Prior to building permit issuance	▪ Review of plans and specifications ▪ Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Monitor wastewater flows relative to the capacity of Pump Station 3586 so that future improvements will be in place before the capacity of the pump station is reached.	Master Developer	▪ During construction	▪ Construction Inspection	March JPA
▪ Construct non-potable water system to meet "Purple" pipe standards for reclaimed water systems.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications ▪ Construction Inspection	March JPA
▪ Use a fireflow standard of 5,000 gallons per minute for the water distribution network.	Master Developer	Prior to the issuance of the first certificate of occupancy for each phase	▪ Review of plans and specifications ▪ Construction Inspection	March JPA
AESTHETICS				
▪ Construct all landscaping in accordance with the approved landscape concept plan and March JPA Development Code	▪ Master Developer ▪ Lot Developer	Prior to the final acceptance of the improvements within each final map area	▪ Review of landscape plans ▪ Construction Inspection	March JPA
NOISE				
▪ Prepare an acoustical analysis for all proposed projects within the established school buffer overlay district. If the acoustical analysis indicates noise levels from a proposed use will be in excess of the thresholds defined by the County of Riverside, then the March JPA will prohibit the use within the school overlay district.	▪ Lot Developer	Prior to the issuance of a site development permit	▪ Construction Inspection	March JPA
▪ All construction equipment used for construction activities shall be fitted with exhaust muffling and noise control filter devices to reduce noise impacts.	Contractor	Prior to the issuance of the first grading permit under the Specific Plan	▪ Review of plans and specifications ▪ Construction Inspection	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ Review and update the location of noise sensitive receptors to ensure that all sensitive receptors that may be affected by the long-term implementation of the proposed Specific Plan are identified. These sensitive receptors shall include the existing schools.	March JPA	Prior to the recordation of each final map	▪ Review of plans and specifications	March JPA
▪ Building setbacks and methods of sound attenuation shall be considered and used where appropriate with specific development proposals in the planning area to limit stationary and vehicular long-term noise impacts upon sensitive noise receptors.	▪ Master Developer ▪ Lot Developer	Prior to building permit issuance	▪ Review of plans and specifications	March JPA
▪ All buildings located within the 65dBA noise contour will include appropriate sound attenuation devices within its construction.	Lot Developer	Prior to building permit issuance	▪ Review of plans and specifications ▪ Construction Inspection	March JPA
▪ Separate industrial and noise sensitive receptors (residential, schools, churches, hospitals, libraries, and senior housing) sufficiently to reduce the noise impact to sensitive receptors to an insignificant level.	Master Developer	Site plan review	▪ Review of plans and specifications	March JPA
▪ Separate residential uses and truck routes so that noise impacts will be contained without unnecessarily lengthening truck trips.	Master Developer	Site plan review	▪ Review of plans and specifications	March JPA
GEOLOGY AND SOILS				
▪ All grading shall be designed in accordance with the grading outlined in the March JPA Development Code.	Master Developer	Prior to issuance of any grading permit	▪ Review of plans and specifications	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
▪ The grading and construction of the project site complies with the geotechnical recommendations contained in the *Preliminary Geotechnical Investigation: March Business Park Phases 1-3* prepared by Inland Foundation Engineering, Inc dated July 10, 2002.	▪ Master Developer ▪ Contractor	Prior to issuance of any grading permit	▪ Review of geotechnical analysis and compare to bid documents to ensure recommendations are incorporated. ▪ Construction Inspection	March JPA
▪ All future development use proper erosion control measures during and following construction.	▪ Master Developer ▪ Contractor	▪ Preparation of bid documents ▪ Verification during construction	▪ Review of bid documents to ensure that applicable codes and regulations are incorporated. ▪ Inspection during construction to ensure that measures are implemented.	March JPA
▪ Revegetate all slopes with native plants compatible to the area to prevent erosion.	▪ Master Developer ▪ Contractor	▪ Incorporate into project plans and specifications ▪ During construction	▪ Review of plans and specifications ▪ Construction inspection	March JPA
▪ All proposed projects shall adhere to the Uniform Building Code and State building requirements in effect at the time specific development is proposed.	Master Developer	Prior to building permit issuance	▪ Review of geotechnical analysis and compare to bid documents to ensure recommendations are incorporated.	March JPA

March Business Center Specific Plan Project Mitigation, Monitoring and Reporting Plan				
Impact Category and Mitigation Measures	Responsible Party	Frequency/Timing	Monitoring Method	Monitoring Agency
CULTURAL RESOURCES				
▪ If archaeological or paleontological resources are encountered at the time of grading or project construction, all project work in the area of the resource shall cease until the area has been surveyed by a qualified archaeologist or paleontologist in conformance with the Cultural Resource Management Plan.	Lot Developer	Ongoing during life of the Project	▪ Construction Inspection	March JPA
PUBLIC SERVICES				
▪ Contract with the Riverside County Sheriff's Department to provide additional police service to the Specific Plan area.	March JPA	Prior to the issuance of the first building permit	▪ Confirm approved agreement with funding assured	March JPA
▪ Dedicate land within the proposed project for a future fire station.	Master Developer	Prior to the recordation of any final map in Phase 3 that includes the fire station site	▪ Final map review	March JPA
▪ All development within the elementary school buffer zone will abide by land use compatibility conditions as set forth in the March Business Center Specific Plan.	Lot Developer	Prior to the issuance any building permit within the buffer zone	▪ Review of plans to ensure that applicable codes and regulations are incorporated.	March JPA